INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: August 17, 2006

RE: US Steel - Gary Works / 089-7663-00121

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:
(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

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(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNTVOP.dot 03/23/06

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

US Steel - Gary Works
One North Broadway
Gary, Indiana 46402

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T089-7663-00121	
Original signed by: Nisha Sizemore, Branch Chief Office of Air Quality	Issuance Date: August 18, 2006 Expiration Date: August 18, 2011

TABLE OF CONTENTS

SOURCE SUMMARY

A Source Definition
- A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]
- A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]
- A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]
- A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]
- A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

B GENERAL CONDITIONS
- B.1 Definitions [326 IAC 2-7-1]
- B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]
- B.3 Term of Conditions [326 IAC 2-1.1-9.5]
- B.4 Enforceability [326 IAC 2-7-7]
- B.5 Severability [326 IAC 2-7-5(5)]
- B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]
- B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]
- B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]
- B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]
- B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3)and (13)][326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]
- B.11 Emergency Provisions [326 IAC 2-7-16]
- B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]
- B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]
- B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]
- B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]
- B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)][326 IAC 2-7-9]
- B.17 Permit Renewal [326 IAC 2-7-4][326 IAC 2-7-8(e)]
- B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]
- B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]
- B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]
- B.21 Source Modification Requirement [326 IAC 2-7-10.5]
- B.22 Inspection and Entry IAC 2-7-6] [IC 13-14-2-2] [IC-30-3-1] [IC 13-17-3-2]
- B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]
- B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]
- B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]][326 IAC 1-1-6]

C SOURCE OPERATION CONDITIONS

Emission Limitations and Standards [326 IAC 2-7-5(1)]
- C.1 Opacity [326 IAC 5-1]
- C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.4 Fugitive Dust Emissions [326 IAC 6-4]
- C.5 Fugitive Dust Emissions [326 IAC 6.8-10 and 326 IAC 6.8-11]
- C.6 Stack Height [326 IAC 1-7]
- C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

Testing Requirements [326 IAC 2-7-6(1)]
- C.8 Performance Testing [326 IAC 3-6]
- C.9 Sulfur Fuel Sampling and Analysis (Entire Source) [326 IAC 7-4.1-2]

Compliance Requirements [326 IAC 2-1.1-11]
C.10 Compliance Requirements [326 IAC 2-1.1-11]

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]
C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
C.12 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
C.13 Continuous Compliance Plan (CCP) [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]
C.14 Monitoring Methods [326 IAC 3] [40 CFR 60][40 CFR 63]
C.15 Instrumentation Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 3-7-6(1)]

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]
C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]
C.18 Response to Excursions and Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]
C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]
C.22 Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source) [326 IAC 7-4.1-20(c)(1)]
C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]
C.24 Sulfur Dioxide (SO_2) Reporting Requirements (Entire Source) [326 IAC 7-4.1-20(c)]

Stratospheric Ozone Protection
C.25 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1 FACILITY OPERATION CONDITIONS - Coal Handling Operations

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.1.1 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 11-3-2(a)]
D.1.2 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]
D.1.3 Coke Oven Batteries Emission Limitations – Prercarbonization [326 IAC 6.8-9-3(a)(9)(A)] [326 11-3-2(a)(1)]
D.1.4 Opacity Limitations [326 IAC 6.8-9-3(a)(9)(B)]
D.1.5 Coke Oven Batteries Opacity Limitations - Prercarbonization [326 11-3-2(a)(2)]
D.1.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR 60, Subpart A]
D1.7 New Source Performance Standards - Opacity Limitations Coal Preparation Plant [326 IAC 12-1][40 CFR 60 Subpart Y]
D.1.8 Sulfur Dioxide (SO_2) Limitations [326 IC 7-4.1-20(c)(3)]
D.1.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.1.10 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.1.11 Particulate Matter Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.1.12 Nos. 2 and 3 Precarbonization [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.1.13 Record Keeping Requirements
D.1.14 Reporting Requirements

D.2 FACILITY OPERATION CONDITIONS - Coke Oven Batteries (Nos. 2, 3, 5 and 7) Operations

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 General Provisions relating to National Emission Standards for Hazardous Air Pollutant (NESHAP) [326 IAC 20-3][40 CFR Part 63, Subpart A] [40 CFR 63 Subpart L] [Table 1 of 40 CFR 63 Subpart CCCCC]
D.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke Oven Batteries [326 IAC 20-3] [40 CFR 63, Subpart L]
D.2.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 6.8-9-3(a)(8)] [326 IAC 11-3-2(i)]
D.2.4 Lake County PM_{10} Coke Battery Emission Requirements [326 IAC 6.8-9]
D2.5 Emissions Limitations for Coke Oven Batteries [326 IAC 11-3-2]
D.2.6 Coke Oven Identification [326 IAC 11-3-3]
D.2.7 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20] [326 IAC 11-3-2(i)]
D.2.8 Nitrogen Oxide (NOx) Limitations PSD [326 IAC 2-2] and Emissions Offsets [326 IAC 2-3]
D.2.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.2.10 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Coke Oven Batteries - Visible Emissions Inspection Requirements [40 CFR 63.309][326 IAC 20]
D.2.11 Visible Emission Inspections for Charging [326 IAC 11-3-4(a)]
D.2.12 Charge Port Lids and Off take Piping - Emissions Testing [326 IAC 11-3-4(b)]
D.2.13 Visible Emission for Oven Doors [326 IAC 11-3-4(c)]
D.2.14 Visible Emission Inspections for Gas Collector Main [326 IAC 11-3-4(e)]
D.2.15 Visible Emission Inspections for Pushing [326 IAC 6.8-9-3(a)(3)]
D.2.16 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]
D.2.17 Sulfur Fuel Sampling and Analysis [326 IAC 7-4-1(d]
D.2.18 Particulate Matter Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.2.19 Visible Emissions Notations
D.2.20 Parametric Monitoring
D.2.21 Continuous Opacity Monitoring (COM) [326 IAC 3-5]
D.2.22 Maintenance of Continuous Opacity Monitoring [326 IAC 2-7-5(3)(A)(iii)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.23 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries Record Keeping and Reporting Requirements [40 CFR 63.311][326 IAC 20]
D.2.24 Record Keeping Requirements
D.2.25 Reporting Requirements

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching and Battery Stacks 40 CFR 63, Subpart CCCCC]

D.2.26 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching and Battery Stacks 40 CFR 63, Subpart CCCCC]

D.3 FACILITY OPERATION CONDITIONS -Coke By-Product Plant

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 14] [40 CFR Part 61 Subpart A]
D.3.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Benzene Limitations from Coke Byproduct Recovery Plants [40 CFR 61Subpart L][326 IAC 14]
D.3.3 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke Byproduct Recovery Plants: Equipment Leaks [326 IAC 14] [40 CFR 61Subpart V]
D.3.4 National Emission Standard for Benzene Waste Operations [40 CFR Part 61, Subpart FF]
D.3.5 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

D.3.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.3.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant Benzene Testing Requirements [326 IAC 2- 7-6(1)] [40 CFR 61, Subpart L][326 IAC 14]

D.3.8 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant Monitoring Procedures for Equipment Leaks [326 IAC 2-7-6(1)] [40 CFR 61, Subpart V]

D.3.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant Leak Detection Testing Requirements [326 IAC 2-7-6(1)] [40 CFR 61, Subpart V]

D.3.10 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations Methods, Procedures and Compliance [326 IAC 2-7-6(1)] [40 CFR 61, Subpart FF]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19][40 FR 61]

D.3.11 National Emission Standards for Hazardous Air Pollutants (NESHAP) Coke byproducts Recovery Plant - Benzene Record Keeping Requirements [40 CFR 61, Subpart L]

D.3.12 National Emission Standards for Hazardous Air Pollutants (NESHAP) Coke Byproducts Recovery Plant - Record Keeping Requirements for Equipment Leaks [40 CFR 61, Subpart V]

D.3.13 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations Record Keeping Requirements [40 CFR 61, Subpart FF]

D.3.14 National Emission Standards for Hazardous Air Pollutants (NESHAP) Coke Byproducts Recovery Plant - Benzene Reporting Requirements [40 CFR 61 Part L][326 IAC 14]

D.3.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) Coke Byproducts Recovery Plant - Reporting Requirements for Equipment Leaks [40 CFR 61, Subpart V]

D.3.16 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations Reporting Requirements [40 CFR 61, Subpart FF]

D.4 FACILITY OPERATION CONDITIONS - Coke Oven Gas Desulfurization Facility

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Lake County PM_{10} Emission Limitation [326 IAC 6.8-2-38]

D.4.2 Sulfur Dioxide (SO_2) Emissions Limitations [326 IAC 7-4.1-20]

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.4 Record Keeping Requirements

D.4.5 Reporting Requirements

D.5 FACILITY OPERATION CONDITIONS - Number 2 Coke Plant Boiler House

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 General Provisions relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) - [326 IAC 20-1] [40 CFR 63, Subpart A]]Table 10 to 40 CFR 63, Subpart DDDDD]

D.5.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD];

D.5.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

D.5.4 Sulfur Dioxide (SO_2) Limitations 326 IAC 7-4-1.1(c)(22)(D)]

D.5.5 Nonattainment NSR Minor Limits [326 IAC 2-1.1-5]

D.5.6 PSD Minor Limit [326 IAC 2-2]

D.5.7 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60 Subpart A]

D.5.8 NOx Emissions [326 IAC 12-1]]40 CFR 60, Subpart Db]

D.5.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.5.10 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 2-1.1-5] [40 CFR 60, Subpart Db] [40 CFR 63, Subpart DDDDD]
D.5.11 Sulfur Fuel Sampling and Analysis326 IAC 7-4-1(d)]
D.5.12 Particulate Matter Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.5.13 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12] [40 CFR 60, Subpart Db] [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart DDDDD]

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.14 Record Keeping Requirements
D.5.15 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]
D.5.16 Reporting Requirements
D.5.17 Natural Gas Fired Boiler Certification
D.5.18 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

D.6 FACILITY OPERATION CONDITIONS - No. 3 Sinter Plant

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A][Table 4 to 40 CFR 63, Subpart FFFFF]
D.6.2 Particulate Emission Offset [326 IAC 2-3]
D.6.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.6.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(I)]
D.6.5 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-13-3]
D.6.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.6.7 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.6.8 Particulate Matter Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.9 Visible Emissions Notations
D.6.10 Parametric Monitoring
D.6.11 Scrubber Failure Detection
D.6.12 Continuous Emissions Monitoring (VOC) [326 IAC 8-13-8]
D.6.13 VOC Monitoring Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.14 General Record Keeping Requirements
D.6.15 General Reporting Requirements

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]

D.6.16 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing – Sinter Plants [40 CFR 63, Subpart FFFFF][326 IAC 2-7-5]

D.7 FACILITY OPERATION CONDITIONS - Blast Furnaces (Nos. 4, 6, 8 and 13)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A][Table 4 to 40 CFR 63, Subpart FFFFF]

D.7.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.7.3 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]
D.7.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(J)]
D.7.5 Carbon Monoxide (CO) Limitations [326 IAC 9-1-2(2)]
D.7.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.7.7 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.7.8 Sulfur Fuel Sampling and Analysis [326 IAC 7-4-1(d)]
D.7.9 Particulate Matter and CO Control [326 IAC 2-7-6(6)]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.7.10 Visible Emissions Notations
D.7.11 Parametric Monitoring

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.7.12 General Record Keeping Requirements
D.7.13 General Reporting Requirements

D.7.14 Actual to Projected Actual Applicability Test [326 IAC 2-2-2(d)] [326 IAC 2-2-3(c)]
D.7.15 Volatile Organic Compounds (VOC) De Minimis [326 IAC 2-3-2(b)]

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]
D.7.16 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Blast Furnaces [40 CFR 63, Subpart FFFFF]

D.8 FACILITY OPERATION CONDITIONS - No. 1 BOP Shop

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.8.1 General Provisions Relating to HAPS [326 IAC 20-1][40 CFR 63, Subpart A][Table 4 to 40 CFR 63, Subpart FFFFF]
D.8.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.8.3 Particulate Emissions Limitation [326 IAC 6.8-1-2(a)
D.8.4 Lake County Opacity Limitations [326 IAC 6.8-3-4]
D.8.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3)]
D.8.6 Sulfur Dioxide (SO_2) Limitations Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]
D.8.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.8.8 Particulate Matter Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.8.9 Sulfur Dioxide Testing Requirements
D.8.10 Particulate Matter Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.8.11 Visible Emissions Notations
D.8.12 Parametric Monitoring
D.8.13 Scrubber Failure Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.8.14 General Record Keeping Requirements

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]
D.8.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

D.9 FACILITY OPERATION CONDITIONS - No. 2 Q-BOP Shop

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.9.1 General Provisions Relating to HAPS [326 IAC 20-1][40 CFR 63, Subpart A][Table 4 to 40 CFR 63, Subpart FFFFF]
D.9.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.9.3 Particulate Matter Limitations [326 IAC 6.8-1-2(a)]
D.9.4 Lake County Opacity Limitations [326 IAC 6.8-3-4]
D.9.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(a)]
D.9.6 Sulfur Dioxide (SO_2) Limitations – Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]
D.9.7 Carbon Monoxide (CO) Limitations [326 IAC 9-1-2]
D.9.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.9.9 Particulate Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.9.10 Sulfur Dioxide (SO_2) Testing Requirements
D.9.11 Particulate Matter Control
D.9.12 Carbon Monoxide Control

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.9.13 Visible Emissions Notations
D.9.14 Parametric Monitoring
D.9.15 Scrubber Failure Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.9.16 General Record Keeping Requirements

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]

D.9.17 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

D.10 FACILITY OPERATION CONDITIONS - Hot Rolling Mill

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.10.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]
D.10.2 National Emission Standards for Hazardous Air Pollutants (HAPs): for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]
D.10.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.10.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(G)]
D.10.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

D.10.6 Testing Requirements
D.10.7 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.10.8 Record Keeping Requirements
D.10.9 Reporting Requirements

D.11 FACILITY OPERATION CONDITIONS - Continuous Pickling Line

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.11.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1-1][40 CFR 63, Subpart A]
D.11.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants [40 CFR 63, Subpart CCC][40 CFR Part 63.1157]
D.11.3 National Emission Standards for Hazardous Air Pollutants (NESHAP) Maintenance Requirements [40 CFR 63.1160]
D.11.4 National Emission Standards for Hazardous Air Pollutants (NESHAP) Operational and Equipment Standards [40 CFR Part 63.1159, Subpart CCC]
D.11.5 Particulate Emission Limitations [326 IAC 6.8-1-2(a)]

Compliance Determination Requirements
D.11.6 Testing Requirements [40 CFR 63.116, Subpart CCC]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.11.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) Monitoring Requirements [40 CFR 63.1162, Subpart CCC]
D.11.8 Monitoring Requirements [40 CFR Part 63.1162]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.11.9 Record Keeping Requirements [40 CFR Part 63.1165]
D.11.10 Reporting Requirements [40 CFR Part 63.1164]

D.12 FACILITY OPERATION CONDITIONS - Sheet Products Division

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.12.1 General Provisions Relating to New Source Performance Standards (NSPS) [326 IAC 12-1][40 CFR 60, Subpart A]
D.12.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.12.3 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]
D.12.4 Nitrogen Dioxide (NOx) Emission Offsets [326 IAC 2-3]
D.12.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(a)]
D.12.6 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]
D.12.7 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]
D.12.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.12.9 Record Keeping Requirements
D.12.10 Reporting Requirements

D.13 FACILITY OPERATION CONDITIONS - Tin Mill Operations

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.13.1 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]
D.13.2 Sulfur Dioxide (SO_2) Limitations [3265 IAC 7-4-1.1(a)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.13.3 Record Keeping Requirements

D.14 FACILITY OPERATION CONDITIONS - No. 4 Boiler House

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.14.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]
D.14.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

D.14.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.14.4 Sulfur Dioxide (SO_2) Limitations [3265 IAC 7-4-1.1(c)(22)(B)]
D.14.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.14.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.14.7 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.14.8 Visible Emission Notations

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.14.9 Record Keeping Requirements
D.14.10 Reporting Requirements
D.14.11 Natural Gas Fired Boiler Certification

D.15 FACILITY OPERATION CONDITIONS - Turboblower Boiler House (TBBH)

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.15.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR Part 63, Subpart A]
D.15.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]
D.15.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR 60, Subpart A]
D.15.4 NSPS Particulate Matter Limitations [326 IAC 12][40 CFR 60, Subpart D]
D.15.5 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]
D.15.6 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(A)]
D.15.7 PSD Nitrogen Oxides (NOx) Offset Limitations [326 IAC 2-2][326 IAC 2-3]
D.15.8 Nitrogen Oxides (NOx) Limitations [326 IAC 12][40 CFR 60, Subpart D]
D.15.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.15.10 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.15.11 Sulfur Fuel Sampling and Analysis **[326 IAC 7-4.1-2]**
D.15.12 Nitrogen Oxides (NOx) Emissions Monitoring for No. 4A Boiler [40 CFR 60.48b]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.15.13 Visible Emission Notations

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.15.14 Record Keeping Requirements
D.15.15 Reporting Requirements
D.15.16 Natural Gas Fired Boiler Certification

D.16 FACILITY OPERATION CONDITIONS - Fugitive Dust Sources

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.16.1 Particulate Matter (PM)Lake County PM_{10} Emission Requirements 326 IAC 6.8-10-4

Compliance Determination Requirements
D.16.2 Particulate Matter Control

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.16.3 Record Keeping Requirements
D.16.4 Reporting Requirements

D.17 FACILITY OPERATION CONDITIONS Insignificant Activities

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.17.1 Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]
D.17.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2 (Cold Cleaner Degreaser Operation)]
D.17.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)]
D.17.4 Volatile Organic Compounds [326 IAC 8-3-8] (Material Requirements for Cold Cleaning Degreasers)
D.17.5 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]

E NITROGEN OXIDES BUDGET TRADING PROGRAM - NO_X Budget Permit

E.1 Automatic Incorporation of Definitions [326 IAC 10-4-7(e)]
E.2 Standard Permit Requirements [326 IAC 10-4-4(a)]
E.3 Monitoring Requirements [326 IAC 10-4-4(b)]
E.4 Nitrogen Oxides Requirements [326 IAC 10-4-4(c)]
E.5 Excess Emissions Requirements [326 IAC 10-4-4(d)]
E.6 Record Keeping Requirements [326 IAC 10-4-4(e)] [326 IAC 2-7-5(3)]
E.7 Reporting Requirements [326 IAC 10-4-4(e)]
E.8 Liability [326 IAC 10-4-4(f)]
E.9 Effect on Other Authorities [326 IAC 10-4-4(g)]

Certification
Emergency Occurrence Report
Quarterly Deviation and Compliance Monitoring Report
Semi- Annual Natural Gas Boiler Certification
Quarterly Reports

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.2, A.3 and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates an integrated steel mill.

Responsible Official:	General Manager, Gary Works
Source Address:	1 North Broadway, Gary, Indiana 46402
Mailing Address:	1 North Broadway, Gary, Indiana 46402
General Source Phone Number:	219-888-3387
SIC Code:	3312
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone Nonattainment for PM 2.5 Attainment or unclassifiable for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD, nonattainment for NSR and Emission Offset Rules; Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This integrated steel mill consists of a main mill and nine (9) on-site contractors:

(a) U. S. Steel - Gary Works, plant Id 089-00121, the primary operation, located at One North Broadway, Gary, Indiana 46402;

(b) Brandenburg Industrial Service Company, plant Id 089-00176, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(c) Central Teaming Company, plant Id 089-00172, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(d) Gary Coal Processing, LP plant Id 089-00169, the on-site contractor located at One North Broadway, Gary, Indiana 46402; and

(e) Heckett Multiserv, plant Id 089-00170, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(f) International Mill Service, Inc. plant Id 089-00132, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(g) Koppers, Inc., plant Id 089- 00180, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(h) Levy- Indiana Slag Company, plant Id 089-00133, the on-site contractor, located at One North Buchanan Street, Gary, Indiana 46401;

(i) Mid-Continent Coal and Coke Company, plant Id 089-00173, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;

(j) Tube City, Inc., plant Id 089-00174, the on-site contractor located at One North Broadway, Gary, Indiana 46401.

(k) U.S. Aggregates, Inc., Id 089- 05256, the on-site contractor, located at One North Broadway, Gary, Indiana 46402.

Separate Part 70 permits will be issued to US Steel - Gary Works and each on site contractor, solely for administrative purposes.

Company Name	Part 70 Permit Number
U.S. Steel - Gary Works	089-7663-00121
Brandenburg Industrial Service Company	089-8013-00176
Central Teaming Company, Inc.	089-7684-00172
Gary Coal Processing, LP	089-7171-000169
Heckett Multiserv,	089-7649-00170
International Mill Service, Inc.	089-5630-00132
Koppers, Inc.	089-13872-00180
Levy-Indiana Slag Company	089-7719-00133
Mid-Continent Coal and Coke Company	089-8064-00173
Tube City, Inc.	089-7648-00174
U.S. Aggregates, Inc.	089-21828-05256

Permitted Emission Units and Pollution Control Equipment

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

The integrated steel mill, US Steel-Gary Works consists of the following:

Coal Handling Operation

(a) One (1) coal car bottom thaw shed (holding yard), identified as CHY00071, constructed in 1959, combusting coke oven gas, with a maximum heat input capacity of 25 MMBtu per hour, with an open flame heater, with uncontrolled fugitive emissions.

(b) One (1) coal car side thaw station, identified as CHT0001, constructed in 1959, combusting natural gas, with a maximum heat input capacity of 15 MMBtu per hour, with an open flame heater, with uncontrolled fugitive emissions.

(c) One (1) No. 2 Coke Battery Precarbonization facility, consisting of three (3) lines, Line A, Line B and Line C identified as CH2A0020, CH2B0021 and CH2C0022, constructed prior to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, identified as CH3029, CH3030 and CH3031, exhausting through stacks CH6034, CH6035 and CH6037, respectively.

(d) One (1) No. 3 Coke Battery Precarbonization facility consisting of three (3) lines Line A, Line B and Line C identified as CH3A0017, CH3B0018 and CH3C0019, constructed prior to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, CH3026, CH3027and CH3028, exhausting through stacks CH6028, CH6029 and CH6031, respectively.

(e) One (1) coal crusher: system consisting of three (3) enclosed hammer mills with a maximum capacity of 160 tons per hour, three (3) enclosed hammer mills with a maximum capacity of 150 tons per hour, and (2) enclosed hammer mills with a maximum capacity of 100 tons per hour, with fugitive emissions contained within the coal blending building.

(f) One (1) enclosed petroleum coke crusher with a maximum capacity of 400 tons per hour which also operates as a coal breaker with a maximum capacity of 1200 tons per hour. This unit is a totally enclosed hammer mill with fugitive emissions contained within the coal blending building.

(g) Coal Handling Storage Facilities, identified as CHSQ0003.

(h) One (1) frozen coal breaker, installed in 1959, with a maximum capacity pf 1300 tons per hour, with fugitive emissions contained within the coal blending building.

Coke Batteries

(a) No. 2 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No. 2 Coke Battery, identified as CP2B0079, constructed in November 1975, with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3060, CP3061 and CP3062, exhausting to Bypass/Bleeder Flare Stacks CP6105, CP6106 and CP 6107.

(2) The No. 2 Coke Battery underfiring system has a maximum combustion heat input capacity of 250 MMBtu per hour, exhausting to stack CP6040 equipped with a continuous opacity monitor (COM).

(3) The No. 2 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 9119, 9120, 9121 or 9122, identified as CP3034, exhausting to Stack CP6041.

(4) Nos. 2 and 3 Quench Towers identified as CP1Q0080 and CP2Q0081, constructed in 1975, with a maximum combined capacity of 322 tons of coke per hour, and No. 1 Quench Tower identified as CPQ0087 constructed in 1975 with a capacity of 322 tons of coke per hour, each equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No.1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.

(5) The No. 2 Coke Battery fugitive emissions are generated from charging operations, off take piping, door leaks, lid leaks and collector main leaks.

(b) No. 3 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No.3 Coke Battery, identified as CP3B0086, constructed in November 1974, with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3063, CP3064 and CP3065, exhausting to Bypass/Bleeder Flare stacks CP6108, CP6109 and CP 6110.

(2) The No. 3 Coke Battery underfiring system has a maximum combustion heat input capacity of 250 MMBtu per hour, exhausting to stack CP6045, equipped with a continuous opacity monitor (COM).

(3) The No. 3 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 9119, 9120, 9121 or 9122, identified as CP3038, exhausting to stack CP6046.

(4) The No. 1 Quench Tower, identified as CP3Q0087, constructed in 1975, with a maximum capacity of 322 tons of coke per hour and Nos. 2 and 3 Quench Towers, identified as CP1Q0080 and CP2Q0081 constructed in 1975 with a maximum capacity of 322 tons of coke per hour, equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No. 1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.

(5) The No. 3 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks.

(c) No. 5 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery with 77 ovens, No. 5 Coke Battery, identified as CP5B0090, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3066 and CP3067, exhausting to Bypass/Bleeder Flare stacks CP6111 and CP 6112.

(2) The No. 5 Coke Battery underfiring system has a maximum combustion heat input capacity of 125 MMBtu per hour, exhausting to stack CP6049, equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 5 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks.

(d) No. 7 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery, with 77 ovens, No.7 Coke Battery, identified as CP7B0094, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3068 and CP3069, exhausting to Bypass/Bleeder Flare stacks CP6113 and CP6114.

(2) The No. 7 Coke Battery underfiring system has a maximum combustion heat input capacity of 125 MMBtu per hour, exhausting to stack CP6053 equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 7 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lids leaks and collector main leaks.

(e) Natural Gas Underfiring Injection System Jets

Three (3) natural gas injection jets, identified as CPNGI001, CPNGI002 and CPNGI003, constructed in 2001, with heat input capacities of 22 MMBtu per hour, 43 MMBtu per hour and 122 MMBtu per hour, respectively. Natural gas injection provides Btu stabilization control, coke oven gas quality control and emergency gas supply to the battery underfiring system.

Coke By-Products Recovery Plant

(a) Control Station No.1

(1) Four (4) Predecanters D-101A, D-101B, D-101C and D-101D, identified as CBP10100, CBP20101, CBP30102 and CBP30103, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72- inch Suction Main.

(2) Two (2) Still Decanters D-102B and D-102A, identified as CBD00104 and CBD00105, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-5 and D-4, identified as CBD20107 and CBD30108, constructed in 1975 with vapors directed by a natural gas blanket system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(4) One (1) Bleed-Off Tank B101, identified as CBB10106, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(5) One (1) Liquor Storage Tank T-7, identified as CBL10109, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(6) Two (2) Tar Storage Tanks T-2 and T-3, identified as CBT00110 and CBT00111, constructed in 1968 with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(7) One (1) Storage Tank T-6, identified as CBT20112, constructed in 1968, with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(8) Two (2) PC Tar Storage Tanks T-363D and T-363A, identified as CBT30113 and CB40114, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(9) One (1) Dry Tar Storage Tank T-9, identified as CBT50115, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(10) One (1) Sump S-9 serving Dry Tar Storage Tank ST-9, identified as CBS10116, constructed in 1991, with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(b) Control Station No. 2

(1) Three (3) Tar Tanks T-304C, T-304B and T-304A , identified as CBT60118, CBT70119, and CBT80121, constructed in 1990, 1953 and 1953, respectively,

with vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(2) One (1) Tar Feed Tank T-306C, identified as CBTF0164, constructed in 1953, with vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(3) One (1) Wash Oil Tank T-331AN, identified as CBO10123, constructed in 1961, with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 into the 72-inch Suction Main.

(4) Two (2) Light Oil Storage Tanks T-312 and T-311, identified as CBO20124 and CBO30125, constructed in 1953 with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(5) One (1) sump S-304/306, constructed in 1996, with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(c) Control Station No. 3

(1) Four (4) Predecanters D-105A, D-105B, D-105C and D-105D, identified as CBP70137, CBP80138, CBP50139 and CBP60140, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(2) Two (2) Still Decanters D-106A and D-106B, identified as CBD60134 and CBD70136, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-6 and D-7, identified as CBD40132 and CBD50133, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(4) Two (2) Tar Decanters D-5/7N and D-5/7S, identified as CBD80141 and CBD90142, constructed in 1953, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(5) One (1) Bleed-Off Tank B-104, identified as CBB20135, constructed in 1976 with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(6) One (1) Liquor Surge Tank T-11, identified as CBL60131, constructed in 1975, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(d) Control Station No. 4

(1) Four (4) Circulating Liquor Decanters L-100B, L-100C, L-100D and L-100E, identified as CBC30127, CBC40128, CBC50129 and CBL80145, constructed in 1975, with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(2) Two (2) Liquor Surge Tanks T-340A and T-340B, identified as CBC20126 and CBL70143, constructed in 1995, with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(3) One (1) Primary Cooler Tank T-345A, identified as CBTF0130, constructed in 1995 with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(e) Control Station No. 5

(1) One (1) Sump of Circulating Liquor Ls-100E, identified as CBS40144, constructed in 1991, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(2) Three (3) Tar Storage Tanks T-301,T-302A, T-302B, identified as CBTA0146, CBTB0147 and CBTC0148, constructed in 1948, 1930, and 1930, respectively, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(3) Two (2) Storage Tanks T-7100, T7110 and T-7120, constructed and refurbished in 1997, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(4) Two (2) Oil/Tar Separator Tanks, T-7000 and T-7010, constructed in 1997, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(5) Two (2) Oil and Tar Receiver Tanks, T-7020 and T-7030, constructed in 1997 with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(f) One (1) Surge Tank T-7800, constructed in 1997, with vapors directed to a nitrogen gas blanketing system.

(g) Distillation Sump Emission Control

One (1) Distillation Sump Emission Control System, identified as CBS80151, constructed in 1989 with vapors directed to a nitrogen gas blanketing system.

(h) Coke Oven Gas (COG) High Pressure Control System, constructed in 1991, contains instrumentation and control valves designed to limit the maximum pressure in the COG distribution system. Excess COG pressure is directed to and combusted in a bleeder flare with emissions exhausting to Stack CG6077.

(i) Equipment in Benzene Service consist of several hundred components pumps, exhausters, valves, flanges and pressure relief devices in benzene service within the byproducts plant.

Coke Oven Gas (COG) Desulfurization Facility

(a) One (1) amine unit, constructed in 1997, removes hydrogen sulfide and other organic sulfur compounds from the coke oven gas (COG) stream.

(b) One (1) reflux unit, constructed in 1997, recycles ammonia and acid gas into the COG stream.

(c) One (1) hydrogen cyanide (HCN) destruction unit, constructed in 1997 converts HCN in the acid gas stream to ammonia to minimize corrosion to the Sulfur Recovery Unit.

(d) One (1) sulfur recovery unit, constructed in 1997, converts sulfur compounds in the acid gas stream to elemental sulfur. This sulfur is sold as a product.

(e) One (1) incineration unit, constructed in 1997, converts remaining sulfur compounds not removed by the sulfur recovery unit into sulfur dioxide.

Coke Plant Boiler House

(a) Two (2) Boilers, Nos. 1 and 2, identified as CSS10155 and CSS20156, constructed prior to 1970, with a maximum heat input capacity of 160 MMBtu per hour each, exhausting to stack CS6061. These boilers are equipped to combust natural gas.

(b) One (1) Boiler, No. 3, identified as CSS30157, constructed in 1943, with a maximum heat input capacity of 160 MMBtu per hour, exhausting to stack CS6062. This boiler is equipped to combust natural gas and coke oven gas.

(c) Two (2) Boilers, Nos. 4 and 5, identified as CSS40158 and CSS50159, constructed prior to 1955, with a maximum heat input of 170 MMBtu per hour each, exhausting to stack CS6063. These boilers are equipped to combust natural gas and coke oven gas.

(d) One (1) Boiler No. 6, identified as CSS60160, constructed in 1955, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6064. This boiler is equipped to combust natural gas and coke oven gas.

(e) One (1) Boiler, No. 7, identified as CS70161, constructed in 1976, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6065. This boiler is equipped to combust natural gas and coke oven gas.

(f) One (1) Boiler, No. 8, identified as CSS80162, constructed in 1981, with a maximum heat input capacity of 249 MMBtu per hour, exhausting to stack CS6066. This boiler is equipped to combust natural gas and coke oven gas.

(g) One (1) natural gas fired boiler at the coke plant boiler house, identified as the temporary rental boiler CSS80163, constructed in 2004 with a maximum heat input capacity of 235 MMBtu/hr and equipped with a low NOx burner, exhausting to the existing stack CS6066.

(h) Two (2) boilers at the coke plant boiler house, identified as Boilers No. 9 CSS80164 and No. 10 CSS 80165, constructed in 2004, each with a maximum heat input capacity of 235 MMBtu/hr, exhausting to stacks CS6067 and CS6068, respectively. These boilers are equipped to burn natural gas and coke oven gas.

(i) One (1) lime storage silo with a maximum capacity of 20 tons per hour and emissions controlled by a baghouse LRS-1, constructed in 2001, exhausting inside the building.

Number 3 Sinter Plant

(a) Three (3) Sinter Strands, constructed in 1958 , identified as ISS10379, ISS20380 and ISS30381, each with a 50 MMBtu per hour reheat burners identified as ISB001, ISB002 and ISB003 and a maximum capacity of 225 tons of sinter per hour each, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS.

(b) One (1) Cold Screen Station, identified as ISR00389, constructed in 1958, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.

(c) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers sinter from the sinter coolers to the cold screening station, using a baghouse IS3208 as a control device and exhausting to stack IS6206.

(d) Three (3) Sinter Coolers, identified as ISC10385, ISC20386, and ISC30387, constructed in 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203, IS6204, and IS6205 respectively.

(e) Three (3) Sinter Strand Discharge End Areas, identified as ISS10379, ISS20380 and ISS0381, constructed in 1958, using three (3) baghouses as control devices, designated as IS3205, IS3206, and IS3207, exhausting to stacks IS6200, IS6201, and IS6202 respectively.

(f) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, including bins, feeders and conveyors, with a maximum capacity of 1,000 tons per hour, using a baghouse IS3196 as a control device and exhausting to stack IS6197.

(g) Storage and Blending Piles, identified as ISBP0376, with fugitive emissions.

Blast Furnaces

(a) Raw materials shipped to the ore yard identified as IAOYO366, are transferred to the Highline, identified as IAHL0307, from which raw material shipments and coke are sent through the Stockhouse.

(b) The No. 14 Blast Furnace Stockhouse, constructed in 1979, identified as IDSH0367, controlled by dust suppression, services Blast Furnace 14. The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4. The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. The No. 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.

(c) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.

(1) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 MMBtu per hour total combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.

(2) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

(3) One (1) Slag Pit, identified as IASP0311, with fugitive emissions.

(d) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 tons per hour, identified as IBBFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 6 Blast Furnace Stoves identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 MMBtu per hour total, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

(3) One (1) Slag Pit, identified as IBSP0335, with fugitive emissions.

(e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

(3) One (1) Slag Pit, identified as ICSP0363, with fugitive emissions.

(f) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.

(1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184

(2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187and fugitive emissions exhausting through the casthouse roof monitor ID6013;

(3) One (1) Slag Pit, identified as IDSP0371, with fugitive emissions.

(4) Pursuant to Significant Source Modification 089-20118-00121, issued October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were approved for construction:

(A) Replacement of furnace refractory lining with new and thinner refractory brick.

(B) Replacement of furnace shell.

(C) Removal and replacement of the top charging system with a new “bell-less” charging system.

(D) Placement of new copper staves in the mantle area of the furnace.

(E) Installation of copper cooling plates and a new bustle pipe.

(F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.

(G) Enlargement of the slag granulator and addition of a stack.

(H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.

(I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.

(g) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas to the three (3) bleeder stacks equipped with Flare No. 1 identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.

(h) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.

(i) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.

Number One Basic Oxygen Process (BOP) Shop

(a) Two (2) Stations, identified as No. 1 and No. 2, Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

(b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 80 tons per hour. Emissions are controlled by No.1, No. 2 and No. 3 baghouses SS3058, SS3059, and SS3053. Nos.1 and 2 exhaust inside the building and No. 3 discharges through stack SS6056.

(c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

(d) Two (2) gas cleaning systems SS3103 and SS3104 that process the exhaust gases from the three (3) steel making vessels consisting of three (3) quenchers, two (2) scuppers, two (2) venturi scrubbers, two (2) separators, two (2) gas coolers fitted with internal mist eliminators and two (2) induced draft fans. Emissions exhaust through stacks SS6102 and SS6103.

(e) CASbell/OB Lancing Stations M, D and E, include the controlled argon stirring process and blowing of oxygen to maintain temperature and chemistry. Constructed in 1981, Station M, identified as SSCM0231, Station E identified as SSCE0232, and Station D identified as SSCD0233 with a maximum capacity of 250 tons per hour each. Emissions are controlled by the CASbell/OB Lancing baghouse SS3105, exhausting through Stack SS6104 and uncaptured emissions venting to the roof monitor SS6636.

(f) One (1) Slingot Moulding Station, including the casting of bottom-poured steel ingots, identified as SSMS0227, constructed in 1965, exhausting to the roof monitor SS6637.

(g) Nine (9) natural gas fired Ladle Preheaters and Dryers identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructed in 1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as SSLD0230, exhausting through Roof Monitor SS6637.

(h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of 275 tons per hour. Emissions exhaust through Roof Monitor SC6638.

(i) One (1) fugitive emissions mitigation system at the No.1 BOP Shop, constructed in June 2002, consisting of a capture hood system ducted to a 99% efficient baghouse with a flow rate of 11,500 acfm.

(j) One emergency slag skimming station with a maximum capacity of 456 tons per hour with emissions ducted to the Hot Metal Transfer Station and Desulfurization/Skimming Stations Baghouse SS3100.

Number Two Q-BOP Shop

(a) Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included: two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115, discharging through NS6144 and the uncontrolled emissions go through roof monitor NS6631.

(b) Q-Basic Oxygen Process (BOP) vessels, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, with a maximum capacity of 250 tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

(c) Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans exhausting to Stacks NS6124 and NS6125.

(d) Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627and NS6628

(e) Three (3) Ladle Metallurgical Facilities, LMF1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling Baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

(f) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Carbon monoxide and other combustible gas emissions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.

(g) One (1) Slag Conditioning Station servicing the RH Vacuum Degasser, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.

(1) PM_{10} emissions from the station are controlled by a baghouse exhausting through Stacks S-1 through S-6 and recycling captured material back to the process.

(2) PM_{10} emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the RH Vacuum Degasser Slag Conditioning Baghouse NS3207, exhausting through Stack NS6636.

(h) One (1) Daytank Lime Silo at the lime dumping station, identified as NSDS0250 constructed in 1971. Emissions are controlled by the Daytank Lime Silo baghouse NS3106, exhausting through the stack, NS6629.

(i) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 800 tons per hour combined. Lines A and B were constructed in1986. Line C was constructed in 1991. Emissions from the continuous casters go to the Roof Monitor NC6635.

(j) Fourteen (14) natural gas fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions go through Roof Monitor NS6633.

(k) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions go through Roof Monitor NS6631.

(l) Two (2) Steel Slag Skimming Stations, consisting of slag skimmers, identified as NSS10292 and NSS20287. Both were constructed in 1973. Emissions go through Roof Monitor NS6633.

(m) One (1) Slingot Station, identified as NSST0290, constructed in 1986. Emissions go through Roof Monitor NS6634.

(n) Eight (8) natural gas fired Tundish Preheaters located at the No. 2 Caster, with a heat input capacity of 6 MMBtu per hour each. Emissions go through Roof Monitor NC6635.

Hot Rolling Mill

(a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas and coke oven gas with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.

(b) Two (2) waste heat boilers Nos. 1 and 2 , identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input capacity from fuel from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas and coke oven gas. Emissions exhaust through the waste heat boiler stacks HB6504 and HB6505.

(c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, 5 roughing mills and a 7-stand finishing mill with fugitive emissions through a Roof Monitor RM6630

Continuous Pickling Lines

(a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.

(b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

Sheet Products Division

(a) North Sheet Mill

(1) One (1) 5-Stand Cold Reduction Mill, identified as H5M50637, constructed in 1964, with a maximum capacity of 400 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.

(2) Twenty-six (26) 4-Stack A Box Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 12 MMBtu per hour each. These furnaces are direct fired with emissions exhausting through vent pipes HT6530 through HT6555.

(3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of 250 tons per hour, with fugitive emissions.

(4) One (1) 80-inch Recoil Line, constructed in1964, with a maximum capacity 120 tons per hour, with fugitive emissions.

(b) South Sheet Mill

(1) Seventeen (17) 8-Stack A Box Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from these furnaces exhaust through the Roof Monitor HX6003.

(2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour, with fugitive emissions through Roof Monitor H26004.

(3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace identified as H6F10527 with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

(4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods.

(5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, with fugitive emissions.

(6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, with fugitive emissions

(c) Electro-galvanizing Line (EGL)

(1) One (1) Electro-galvanizing Line (EGL), with one HCl pickle tank, No.1 Pickle tank, identified as HET20685, a cleaner section, a plating section and associated scrubber, with a maximum capacity of 60.5 tons per hour. Fumes from the Pickle Section are controlled by a fume scrubber HE3583 exhausting through stack HE6563. The single sided process for this coating line was constructed in 1977 and was modified in 1993 to a double sided process for coating.

(2) One (1) natural gas fired Boiler No. 1 in the EGL Boiler House, identified as HBB10675, constructed in 1978 and modified in 2001, with a heat input capacity of 39.147 MMBtu per hour, exhausting through stack HB6559.

Tin Division

(a) One (1) 6-Stand Cold Reduction Mill, identified as TRM00709, constructed in 1967, with a maximum capacity of 150 tons per hour. Emissions are controlled by a mist eliminator TR3600, exhausting to stack TR6575.

(b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. Fumes are controlled by a fume scrubber exhausting to a stack.

(c) Two (2) Annealing Lines, No. 1 and No. 2, each containing an annealing furnace, identified as T1AF0794 and T2AF0799, No.1 constructed in 1950 and No. 2 constructed in 1959, with a maximum heat input capacities of 32 and 35 MMBtu per hour, respectively. Emissions exhaust to stacks T16609 and T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes collected in a fume scrubber exhausting through a stack.

(d) Five (5) 4-Stack A Box Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

(e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, with fugitive emissions. This unit has a dust filter that exhausts inside the building.

(f) One (1) Double Reduction Mill with two (2) mill stands, identified as TDMO0742, constructed in 1963, with a maximum capacity of 75 tons per hour. Emissions are controlled by a mist eliminator D3603, exhausting to stack TD6595.

(g) One (1) No.1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The chemical treatment rinse section, TFR00753 exhaust through stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661.

(h) One (1) No. 5 Electrolytic Tinning Line 5 (ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with fugitive emissions through Roof Monitor T56071.

(i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, with fugitive emissions through Roof Monitor T56071.

(j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, with fugitive emissions through roof monitor.

(k) One (1) Tin Mill Recoil and inspection Line, constructed in 1967, with a maximum capacity of 14.8 tons per hour.

(l) One (1) 45” Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

No. 4 Boiler House

(a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas and fuel oil, with a maximum heat input of 500 MMBtu per hour each, exhausting through Stacks O46268 and O46269, respectively.

(b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Turboblower Boiler House (TBBH)

(a) Three (3) Boilers, No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler, No. 4A, identified as OTB40465, constructed in 1990, with a maximum heat input of 244 MMBtu per hour when combusting natural gas. Emissions exhaust through Stack OT6274, with NOx emissions monitored by a Predictive Emissions Monitoring System (PEMS).

(c) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

(d) One (1) boiler, No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

Fugitive Dust Sources consisting of, but not limited to, the following:

(a) Paved Roads and Parking Lots

(b) Unpaved Roads and Parking Lots

(c) Batch Transfer-Loading and Unloading Operations

(d) Continuous Transfer In and Out of Storage Piles

(e) Batch Transfer Operations-Slag and Kish Handling

(f) Wind Erosion from Storage Piles and Open Areas

(g) In Plant Transfer by Truck or Rail

(h) In Plant Transfer by Front End Loader or Skip Hoist

(i) Material Processing Facility

(j) Crusher Fugitive Emissions

(k) Material Processing Facility Building Openings

(l) Dust Handling Equipment

A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

(a) Specifically regulated insignificant activities:

(1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(2) Cleaners and solvents characterized as follows:

(A) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38°C (100°F) or;

(B) Having a vapor pressure equal to or less than 0.7 kPA; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.[326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(3) The following VOC and HAP storage containers:

(A) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons. [326 IAC 8-9-1]

(B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids. [326 IAC 8-9-1]

(4) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.8-10-3]

(5) Any of the following structural steel and bridge fabrication activities:

(A) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.

(B) Using 80 tons or less of welding consumables. [326 IAC 6.8-10-3]

(6) Conveyors as follows:

(A) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day; [326 IAC 6.8-10-3]

(B) Uncovered coal conveying of less than or equal to 120 tons per day [326 IAC 6.8-10-3]

(7) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6.8-10-3]

(8) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6.8-10-3]

(9) Vents from ash transport systems not operated at positive pressure. [326 IAC 6.8-10-3)]

(10) Fuel dispensing activities, including the following:

(A) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment. [326 IAC 8-9-1]

(B) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9-1]

(b) Other Insignificant Activities

(1) Space heaters, process heaters, or boilers using the following fuels:

(A) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(B) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing equal or less than five-tenths percent (0.5%) sulfur by weight.

(2) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) British thermal units per hour except where total capacity of equipment operated by one (1) stationary source as defined by subdivision (38) exceeds two million (2,000,000) British thermal units per hour.

(3) Combustion source flame safety purging on startup.

(4) Refractory storage not requiring air pollution control equipment.

(5) Equipment used exclusively for the following:

(A) Packaging lubricants and greases.

(B) Filling drums, pails, or other packaging containers with the following: Lubricating oils, Waxes and Greases.

(6) Application of: oils; greases; lubricants; and nonvolatile material; as temporary protective coatings.

(7) Closed loop heating and cooling systems.

(8) Rolling oil recovery systems.

(9) Groundwater oil recovery wells.

(10) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(11) Water runoff ponds for petroleum coke-cutting and coke storage piles.

(12) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPS.

(13) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.

(14) Noncontact cooling tower systems with forced or induced draft cooling tower system not regulated under a NESHAP.

(15) Quenching operations used with heat treating operations.

(16) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(17) Heat exchanger cleaning and repair.

(18) Process vessel degassing and cleaning to prepare for internal repairs.

(19) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.

(20) Paved and unpaved roads and parking lots with public access.

(21) Underground conveyors

(22) Asbestos abatement projects regulated by 326 IAC 14-10.

(23) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(24) Flue gas conditioning systems and associated chemicals, such as the following: sodium sulfate, ammonia and sulfur trioxide.

(25) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(26) Blow down for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(27) Activities associated with emergencies, including the following:
- (A) On-site fire training approved by the department.
- (B) Emergency generators as follows: Gasoline generators not exceeding one hundred ten (110) horsepower , Diesel generators not exceeding one thousand six hundred (1,600) horsepower and natural gas turbines or reciprocating engines not exceeding one thousand six hundred (1,600) horsepower.
- (C) Stationary fire pumps

(28) Purge double block and bleed valves.

(29) A laboratory as defined in 326 IAC 2-7-1(21)(D).

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This integrated steel mill is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T089-7663-00121, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(1) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(2) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, and the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the A responsible official as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the A responsible official as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by the A responsible official as defined by 326 IAC 2-7-1(34).

(b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T089-7663-00121 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the A responsible official as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, determines any of the following: to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ determines any of the following: at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ determines any of the following: may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the A responsible official as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251-2251

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the A responsible official as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, all such which document all such changes and emissions trades that are subject to 326 IAC 2-7-20(b)(1), (c)(1), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification of the A responsible official as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

(f) This condition does not apply to emission trades of SO_2 or NO_X under 326 IAC 21 or 326 IAC 10-4.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

(a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ and the U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act IC 13-14-2-1, IC 13-17-3-2, and IC 13-30-3-1 have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act IC 13-14-2-1, IC 13-17-3-2, and IC 13-30-3-1 inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act IC 13-14-2-1, IC 13-17-3-2, and IC 13-30-3-1sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act IC 13-14-2-1, IC 13-17-3-2, and IC 13-30-3-1utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. In the event that the source is a sub-contractor and is combined with a larger Part 70 source, the larger Part 70 source may pay the Permittees' annual fees as part of the larger source billing and subject to the fee cap of the larger source. If, however, the larger Part 70 does not pay its annual Part permit fee, IDEM, OAQ will assess a separate fee in accordance with 326 IAC 2-7-19(c) to be paid by the Permittee. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C **SOURCE OPERATION CONDITIONS**

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.5 Fugitive Dust Emissions [326 IAC 6.8-10 and 326 IAC 6.8-11]

(a) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(3) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%) three (3) minute average. This includes material transfer to initial hopper of material processing facility as defined in 326 IAC 6.8-10-2 or material transfer for transportation within or outside the source property including but not limited to the following:

(A) Transfer of slag product for use in asphalt plant
(i) From a storage pile to a front end loader; and
(ii) From a front end loader to a truck.

(B) Transfer of sinter blend for use at the sinter plant:

(i) From a storage pile to a front end loader; and
(ii) From a front end loader to a truck; and
(iii) From a truck to the initial processing point

(C) Transfer of coal for use at a coal processing line:
(i) From a storage pile to a front end loader, and
(ii) From a front end loader to the initial hopper of a coal processing line.

Compliance with any operation lasting less than three (3) minutes shall be determined as an average of consecutive operations recorded at fifteen (15) second intervals for the duration of the operation.

(4) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:

(A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a three (6) minute average.

(B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC(9).

(5) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.

(6) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. These limitations may not apply during periods when application of fugitive particulate control measures is either ineffective or unreasonable due to sustained very high wind speeds. During such periods the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting opacity limitation was not reasonable given prevailing wind conditions.

(7) There shall be a zero (0) percent frequency of visible emission observations of a material during the in plant transportation of material by truck or rail at any time. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with in-plant transportation requirement.

(8) The opacity of fugitive particulate emissions from the in plant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(9) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(10) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(11) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(12) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

(13) PM10 emissions from each material processing stack shall not exceed 0.022 grains per dry standard cubic foot and ten percent (10%) opacity.

(14) Fugitive particulate matter from the material processing facilities except at a crusher in which a capture system is not used shall not exceed ten percent (10%) opacity.

(15) Fugitive particulate matter from a crusher in which a capture system is not used shall not exceed fifteen percent (15%) opacity.

(b) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan submitted on March 1, 2003. (See Attachment A)

(c) The source is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures), because it is subject to the requirements of 326 IAC 6.8-10. Pursuant to this rule, the source shall comply with 326 IAC 6.8-11-4 and 326 IAC 6.8-11-6.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue

Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos Inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

C.9 Sulfur Fuel Sampling and Analysis (Entire Source) [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2 and in order to comply with sulfur dioxide limitations in the applicable D sections, the Permittee shall submit a sampling and analysis protocol to the Department by July 1, 2006.

(a) The protocol shall contain a description of planned procedures for:

(1) sampling of sulfur-bearing fuels and materials;

(2) analysis of the sulfur content; and

(3) any planned direct measurement of sulfur dioxide emissions vented to the atmosphere; and

(b) Specify the frequency of sampling, analysis, and measurement for each fuel and material and for each emissions unit.

(c) The protocol may be revised as necessary with approval by IDEM-OAQ.

(d) IDEM, OAQ may also require that a source conduct a stack test at any facility listed in this permit within sixty (60) days of written notification by the IDEM-OAQ.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.12 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment. For a boiler, the COMS shall be in operation at all times that the induced draft fan is in operation.

(b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.

(c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COM is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.

(1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time; provided, however, that if such 24-hour period ends during the period beginning two (2) hours before sunset and ending two (2) hours after sunrise, then such visible emissions readings shall begin within four (4) hours of sunrise on the day following the expiration of such 24-hour period.

(2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.

(3) Method 9 readings may be discontinued once a COMS is online.

(4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

(5) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, 40 CFR 60 and/or 40 CFR 63.

C.13 Continuous Compliance Plan (CCP) [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

(a) Pursuant to 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.

(b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. If required by IDEM, OAQ, the Permittee shall submit the updated CCP to IDEM, OAQ within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit updates, to a CCP is a violation of 326 IAC 6.8-8.

C.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.15 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on October 5, 1996 for initial approval by IDEM.

(b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the latest IDEM approved version of the ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.18 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

(c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:

(1) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii) and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.22 Sulfur Record keeping Requirements (Entire Source) [326 IAC 7-4.1-20(c)(1)]

Pursuant to 326 IAC 7-4.1-20(c)(1), the Permittee shall record and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:

(a) Identification of the applicable limit.

(b) The amount and type each fuel used for each facility for each calendar day of operation.

(c) The operating scenario chosen for the US Steel – Gary Works.

(d) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per hour calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by twenty-four (24) hours.

(e) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per MMBtu for those facilities with a pounds per MMBtu limit in this rule calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by the total heat input per day in MMBtu.

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit

"calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

(f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll) at an existing emissions unit and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq)), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).

(g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

(h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

C.24 Sulfur Dioxide (SO_2) Reporting Requirements (Entire Source) [326 IAC 7-4.1-20(c)(2)]

Pursuant to 326 IAC 7-4.1-20(c)(2), the Permittee shall submit an exception report to IDEM, OAQ, within thirty (30) days of an exceedance of the limitations in this permit that included the following:

(a) Identification of the applicable limit or limits being exceeded.

(b) Identification of any emissions unit exceeding the applicable limit and the dates when the limits were exceeded.

(c) The calculated sulfur dioxide emission rate in pounds per hour for each facility exceeding the limitations for the days that the pounds per hour limitations were exceeded.

(d) The calculated sulfur dioxide emission rate in pounds per million Btu for each combustion unit, furnace, boiler, or process operation for each facility exceeding the pounds per million Btu limitation for the days that the limitations were exceeded.

(e) The actual daily fuel usage for each combustion unit, furnace, boiler, or process operation for each facility exceeding the limitations for the days that the limitations were exceeded.

Stratospheric Ozone Protection

C.25 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) Coal Handling Operation

(a) One (1) coal car bottom thaw shed (holding yard), identified as CHY00071, constructed in 1959, combusting coke oven gas, with a maximum heat input capacity of 25 MMBtu per hour, with an open flame heater, with uncontrolled fugitive emissions.

(b) One (1) coal car side thaw station, identified as CHT0001, constructed in 1959, combusting natural gas, with a maximum heat input capacity of 15 MMBtu per hour, with an open flame heater, with uncontrolled fugitive emissions.

(c) One (1) No. 2 Coke Battery Precarbonization facility, consisting of three (3) lines, Line A, Line B and Line C identified as CH2A0020, CH2B0021 and CH2C0022, constructed prior to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, identified as CH3029, CH3030 and CH3031, exhausting through stacks CH6034, CH6035 and CH6037, respectively.

(d) One (1) No. 3 Coke Battery Precarbonization facility consisting of three (3) lines Line A, Line B and Line C identified as CH3A0017, CH3B0018 and CH3C0019, constructed prior to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, CH3026, CH3027and CH3028, exhausting through stacks CH6028, CH6029 and CH6031, respectively.

(e) One (1) coal crusher: system consisting of three (3) enclosed hammer mills with a maximum capacity of 160 tons per hour, three (3) enclosed hammer mills with a maximum capacity of 150 tons per hour, and two (2) enclosed hammer mills with a maximum capacity of 100 tons per hour, with fugitive emissions contained within the coal blending building.

(f) One (1) enclosed petroleum coke crusher with a maximum capacity of 400 tons per hour which also operates as a coal breaker with a maximum capacity of 1200 tons per hour. This unit is a totally enclosed hammer mill with fugitive emissions contained within the coal blending building.

(g) Coal Handling Storage Facilities, identified as CHSQ0003.

(h) One (1) frozen coal breaker, installed in 1959, with a maximum capacity pf 1300 tons per hour, with fugitive emissions contained within the coal blending building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 11-3-2(a)]

Pursuant to 326 IAC 6.8-2-38 and 326 IAC 11-3-2(a), the PM_{10} from the No. 2 Coke Battery Precarbonization Lines A, B, and C, ESP stacks CH6034, CH6035 and CH6037 and No. 3 Coke Battery Precarbonization Lines A, B, and C ESP stacks CH6028, CH6029 and CH6031 shall comply with the following:

(a) The PM_{10} emissions from the Coke Battery # 2 Precarbonization Lines A, B, and C electrostatic precipitator stacks CH6034, CH6035 and CH6037 shall not exceed a total of 62.5 pounds per hour.

(b) The PM_{10} emissions from the Coke Battery # 3 Precarbonization Lines A, B, and C electrostatic precipitator stacks CH6028, CH6029 and CH6031shall not exceed a total of 62.5 pounds per hour.

(c) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.1.2 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

(1) The coal car bottom thaw shed CHY00071, coal car side thaw station CHT00001 and pet coke crusher used as a second coal crusher generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$\frac{P = 100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from coal car bottom thaw shed CHY00071, coal car side

thaw station CHT00001 and pet coke crusher used as a second coal crusher generating fugitive dust shall comply with the emission limitations in Section C.5 - Fugitive Dust Emissions.

D.1.3 Coke Oven Batteries Emission Limitations - Precarbonization [326 IAC 6.8-9-3(a)(9)(A)] [326 IAC 11-3-2(a)(1)]

(a) Pursuant to 326 IAC 6.8-9-3(a)(9)(A), Particulate emissions from the precarbonization towers shall be limited by the emission limitations contained in 326 IAC 6.8-2-38.

(b) Pursuant to 326 IAC 11-3-2(a)(1), particulate emissions from precarbonization towers shall be limited by the emission limitations determined under 326 IAC 6.8-2-38.

D.1.4 Opacity Limitations [326 IAC 6.8-9-3(a)(9)(B)]

Pursuant to 326 IAC 6.8-9-3(a)(9)(B), the visible emissions from the precarbonization towers shall comply with the requirements set forth in 326 IAC 5.

D.1.5 Coke Oven Batteries Opacity Limitations [326 IAC 11-3-2(a)(2)]

Pursuant to 326 IAC 11-3-2(a)(2), the visible emissions from any precarbonization unit shall comply with the requirements set forth in 326 IAC 5-1.

D.1.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the petroleum coke crusher while in service as a coal breaker, except when otherwise specified in 40 CFR Part 60, Subpart Y.

D.1.7 New Source Performance Standards - Opacity Limitations Coal Preparation Plant [326 IAC 12-1][40 CFR 60 Subpart Y]

Pursuant to 40 CFR 60.250 through 60.254, Minor Source Modification 089-10551-00121, issued February 10, 1999, and A 089-11953-00121, issued April 15, 2000, the opacity from the petroleum coke crusher while in service as a coal breaker shall not exceed twenty percent (20%).

D.1.8 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3)]

Pursuant to 326 IAC 7-4.1-20(c)(3), an emission unit shall burn natural gas only:

(a) If it is not listed in this rule; or

(b) under any operating condition not specifically listed in this rule.

D.1.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.1.10 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Pursuant to the COMS Waiver, issued by IDEM May 16, 1997, this performance test schedule is the alternative monitoring requirement for the Precarbonization Units, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031, as required by 326 IAC 6.8-5-1.

(b) Pursuant to the protocol, incorporated as Exhibit C of the Agreed Order issued March 22, 1996 the Permittee shall conduct the performance test for Particulate Matter, to demonstrate compliance by measuring combined filterable and condensable emissions utilizing Method 5 and Method 202 of 40 CFR 60 Appendix A or other methods as approved by the Commissioner.

(c) Pursuant to Revised Source Testing Protocol for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively, in a letter dated June 29, 1998 the Permittee shall conduct the operation of a single Precarbonization Line through two ESPs. In order for the testing to represent the worst case emissions, the Permittee shall operate a single precarbon line through its associated ESP line with the tie lines between ESPs closed during the test. The results of this testing will be considered in compliance if the average PM_{10} (filterable plus condensible) are less than 31.25 pounds per hour.

This test protocol modification reflects the change in operations of ESPs immediately after the precarbonization line returns from the "stand by" mode which results in decreased ESP collection efficiency.

(d) Pursuant to the COMS Waiver, dated May 16, 1997, the Permittee shall conduct performance tests on the Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, in accordance with (b) and (c) above for PM_{10} emissions using the schedule and testing frequency established in the COMS Waiver. All tests shall be performed in accordance with Section C – Performance Testing.

D.1.11 Particulate Matter Control

(a) The No. 2 Coke Battery Precarbonization ESPs CH3029, CH3030 and CH3031, shall be in operation for PM_{10} control at all times the No. 2 Coke Battery Precarbonization lines A, B and/or C are in operation.

(b) The No. 3 Coke Battery Precarbonization ESPs CH3026, CH3027 and CH3028 shall be in operation for PM_{10} control at all times the No. 3 Coke Battery Precarbonization lines A, B and/or C are in operation.

Compliance Monitoring Requirements

D.1.12 Nos. 2 and 3 Precarbonization [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The ability of the ESPs CH3029, CH3030, and CH3031 to control particulate emissions shall be monitored, in accordance with the Compliance Monitoring Plan required under the COMS Waiver issued by IDEM May 16, 1997.

(b) The ability of the ESPs, CH3026, CH3027 and CH3028 to control particulate emissions shall be monitored in accordance with the Compliance Monitoring Plan required under the COMS Waiver issued by IDEM May 16, 1997.

(c) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances or corrective actions shall be taken in accordance with the COMS Waiver Compliance Monitoring Plan whenever the parameters fall outside the normal operating range as set forth in the Compliance Monitoring Plan. An out of range parameter is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to an Excursions or Exceedances or the COMS Waiver Compliance Monitoring Plan shall be considered a deviation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.10, the Permittee shall maintain records of the stack tests conducted in accordance with COMS Waiver for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3.

(b) To document compliance with the Condition D.1.12, the Permittee shall maintain records of the parametric monitoring required under the COMS Waiver Compliance Monitoring Plan for the Nos. 2 and 3 Precarbons.

(c) All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

D.1.14 Reporting Requirements

Pursuant to the COMS Waiver issued by IDEM May 16, 1997, the Permittee shall submit quarterly reports on relative parameters which are indicative of process and control device operation for the life of the Nos. 2 and 3 Coke Battery Precarbonization facilities. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.2 OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: The Coke Battery Operations

(a) No. 2 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No. 2 Coke Battery, identified as CP2B0079, constructed in November 1975, with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3060, CP3061 and CP3062, exhausting to Bypass/Bleeder Flare Stacks CP6105, CP6106 and CP6107.

(2) The No. 2 Coke Battery underfiring system has a maximum combustion heat input capacity of 250 MMBtu per hour, exhausting to stack CP6040 equipped with a continuous opacity monitor (COM).

(3) The No. 2 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 9119, 9120, 9121 or 9122, identified as CP3034, exhausting to Stack CP6041.

(4) Nos. 2 and 3 Quench Towers identified as CP1Q0080 and CP2Q0081, constructed in 1975, with a maximum combined capacity of 322 tons of coke per hour, and No. 1 Quench Tower identified as CPQ0087 constructed in 1975 with a capacity of 322 tons of coke per hour, each equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No.1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.

(5) The No. 2 Coke Battery fugitive emissions are generated from charging operations, off take piping, door leaks, lid leaks and collector main leaks.

(b) No. 3 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No.3 Coke Battery, identified as CP3B0086, constructed in November 1974, with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3063, CP3064 and CP3065, exhausting to Bypass/Bleeder Flare stacks CP6108, CP6109 and CP 6110.

(2) The No. 3 Coke Battery underfiring system has a maximum combustion heat input capacity of 250 MMBtu per hour, exhausting to stack CP6045, equipped with a continuous opacity monitor (COM).

(3) The No. 3 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 9119, 9120, 9121 or 9122, identified as CP3038, exhausting to stack CP6046.

(4) The No. 1 Quench Tower, identified as CP3Q0087, constructed in 1975, with a maximum capacity of 322 tons of coke per hour and Nos. 2 and 3 Quench Towers, identified as CP1Q0080 and CP2Q0081 constructed in 1975 with a maximum capacity of 322 tons of coke per hour, equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No. 1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.

(5) The No. 3 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)] The Coke Battery Operations (continued):

(c) No. 5 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery with 77 ovens, No. 5 Coke Battery, identified as CP5B0090, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3066 and CP3067, exhausting to Bypass/Bleeder Flare stacks CP6111 and CP 6112.

(2) The No. 5 Coke Battery underfiring system has a maximum combustion heat input capacity of 125 MMBtu per hour, exhausting to stack CP6049, equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 5 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks.

(d) No. 7 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery, with 77 ovens, No.7 Coke Battery, identified as CP7B0094, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3068 and CP3069, exhausting to Bypass/Bleeder Flare stacks CP6113 and CP6114.

(2) The No. 7 Coke Battery underfiring system has a maximum combustion heat input capacity of 125 MMBtu per hour, exhausting to stack CP6053 equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 7 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lids leaks and collector main leaks.

(e) Natural Gas Underfiring Injection System Jets
Three (3) natural gas injection jets, identified as CPNGI001, CPNGI002 and CPNGI003, constructed in 2001, with heat input capacities of 22 MMBtu per hour, 43 MMBtu per hour and 122 MMBtu per hour, respectively. Natural gas injection provides Btu stabilization control, coke oven gas quality control and emergency gas supply to the battery underfiring system.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 General Provisions relating to National Emission Standards for Hazardous Air Pollutant (NESHAP) [326 IAC 20-3][40 CFR Part 63, Subpart A] [40 CFR 63 Subpart L] [Table 1of 40 CFR 63 Subpart CCCCC]

(a) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-3, apply to Battery 2, Battery 3, Battery 5 and Battery 7, except when otherwise specified in 40 CFR Part 63, Subpart L.

(b) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to Battery 2, Battery 3, Battery 5 and Battery 7, except when otherwise specified in Table 1 of 40 CFR Part 63, Subpart CCCCC.

D.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP)- Coke Oven Batteries [326 IAC 20-3] [40 CFR Part 63, Subpart L]

(a) Pursuant to 40 CFR 63.304, the Permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions. Each coke oven battery CP2B0079, CP3B0086, CP5B0090 and CP7B0094 shall not exceed the following emission limitations or requirements:

(1) Four and three-tenths percent (4.3%) leaking coke oven doors for each tall 6 meter by-product coke oven battery, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(2) Three and eight-tenths percent (3.8%) leaking coke oven doors for each short 3 meter by-product coke oven based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(3) Four-tenths percent (0.4%) leaking topside port lids, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(4) Two and five-tenths percent (2.5%) leaking off take systems, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(5) Twelve (12) seconds of visible emissions per charge, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(6) On or after January 1, 2010, unless the US EPA or IDEM, OAQ promulgates more stringent limits pursuant to section 112(i)(8)(C) of Clean Air Act (CAA); the limit for each tall 6-meter by-product coke oven battery, shall be four percent (4%) leaking coke oven doors and the limit for each short 3-meter coke oven battery shall be three and three-tenths (3.3%) leaking coke oven doors, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

(b) Pursuant to 40 CFR 63.306, Work Practice Standards, the Permittee shall maintain, a written emission control work practice plan for each coke oven battery. The plan shall be designed to achieve compliance with visible emission limitations for coke oven doors, topside port lids, off take systems, and charging operations under 40 CFR 63 Subpart L.

(1) The work practice plan must address each of the topics specified in paragraph (4) below in sufficient detail and with sufficient specificity to allow the IDEM, OAQ to evaluate the plan for completeness and enforceability.

(2) The IDEM, OAQ may require revisions to the initial plan only where the IDEM, OAQ finds either that the plan does not address each subject area listed in paragraph (4) of D.2.2(b) for each emission point subject to a visible emission

standard under 40 CFR 63 Subpart L or that the plan is unenforceable because it contains requirements that are unclear.

(3) During any period of time that a Permittee is required to implement the provisions of a plan for a particular emission point, the failure to implement one or more obligations under the plan and/or any record keeping requirement(s) under 40 CFR 63.311(f)(4) for the emission point during a particular day is a single violation.

(4) Plan components. The Permittee shall organize the work practice plan to indicate clearly which parts of the plan pertain to each emission point subject to visible emission standards under this subpart. Each of the following provisions, at a minimum, shall be addressed in the plan:

(A) An initial and refresher training program for all coke plant operating personnel with responsibilities that impact emissions, including contractors, in job requirements related to emission control and the requirements of this subpart, including work practice requirements. Contractors with responsibilities that impact emission control may be trained by The Permittee or by qualified contractor personnel; however, the Permittee shall ensure that the contractor training program complies with the requirements of this section. The training program in the plan must include:

(i) A list, by job title, of all personnel that are required to be trained and the emission point(s) associated with each job title;

(ii) An outline of the subjects to be covered in the initial and refresher training for each group of personnel;

(iii) A description of the training method(s) that will be used (e.g., lecture, video tape);

(iv) A statement of the duration of initial training and the duration and frequency of refresher training;

(v) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion of the initial and refresher training; and

(vi) A description of the procedure to be used to document performance of plan requirements pertaining to daily operation of the coke oven battery and its emission control equipment, including a copy of the form to be used, if applicable, as required under the plan provisions implementing paragraph 40 CFR 63.306(b)(7).

(B) Procedures for controlling emissions from coke oven doors on by-product coke oven batteries, including:

(i) A program for the inspection, adjustment, repair, and replacement of coke oven doors and jambs, and any other equipment for controlling emissions from coke oven doors, including a defined frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances;

(ii) Procedures for identifying leaks that indicate a failure of the emissions control equipment to function properly, including a clearly defined chain of command for communicating information on leaks and procedures for corrective action;

(iii) Procedures for cleaning all sealing surfaces of each door and jamb, including identification of the equipment that will be used and a specified schedule or frequency for the cleaning of sealing surfaces;

(iv) For batteries equipped with self-sealing doors, procedures for use of supplemental gasketing and luting materials, if the Permittee elects to use such procedures as part of the program

(v) For batteries equipped with hand-luted doors, procedures for luting and reluting, as necessary to prevent exceedances;

(vi) Procedures for maintaining an adequate inventory of the number of spare coke oven doors and jambs located onsite; and

(vii) Procedures for monitoring and controlling collecting main back pressure, including corrective action if pressure control problems occur.

(C) Procedures for controlling emissions from charging operations on by-product coke oven batteries, including:

(i) Procedures for equipment inspection, including the frequency of inspections, and replacement or repair of equipment for controlling emissions from charging, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances;

(ii) Procedures for ensuring that the larry car hoppers are filled properly with coal;

(iii) Procedures for the alignment of the larry car over the oven to be charged;

(iv) Procedures for filling the oven (e.g., procedures for staged or sequential charging);

(v) Procedures for ensuring that the coal is leveled properly in the oven; and

(vi) Procedures and schedules for inspection and cleaning of off-take systems (including standpipes, standpipe caps, goosenecks, dampers, and mains), oven roofs, charging holes, topside port lids, the steam supply system, and liquor sprays.

(D) Procedures for controlling emissions from topside port lids on by-product coke oven batteries, including:

(i) Procedures for equipment inspection and replacement or repair of topside port lids and port lid mating and sealing surfaces,

including the frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances; and

(ii) Procedures for sealing topside port lids after charging, for identifying topside port lids that leak, and procedures for resealing.

(E) Procedures for controlling emissions from off take system(s) on by-product coke oven batteries, including:

(i) Procedures for equipment inspection and replacement or repair of off take system components, including the frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances;

(ii) Procedures for identifying off take system components that leak and procedures for sealing leaks that are detected; and

(F) Procedures for dampering off ovens prior to a push.

(G) Procedures for maintaining, for each emission point subject to visible emission limitations under this subpart, a daily record of the performance of plan requirements pertaining to the daily operation of the coke oven battery and its emission control equipment, including:

(i) Procedures for recording the performance of such plan requirements; and

(ii) Procedures for certifying the accuracy of such records by the Permittee.

(H) Any additional work practices or requirements specified by the IDEM, OAQ, according to 40 CFR 63.306(d).

(5) Implementation of work practice plans. The Permittee shall implement the provisions of the coke oven emission control work practice plan according to the following requirements:

(A) The Permittee shall Implement the provisions of the work practice plan pertaining to a particular emission point following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer. For the purpose of this 40 CFR 63.306(c)(1)(i), the second exceedance is ``independent'' if either of the following criteria is met:

(i) The second exceedance occurs 30 days or more after the first exceedance;

(ii) In the case of coke oven doors, topside port lids, and off take systems, the 29-run average, calculated by excluding the highest

value in the 30-day period, exceeds the value of the applicable emission limitation; or

(iii) In the case of charging emissions, the 29-day logarithmic average, calculated in accordance with Method 303 in appendix A to 40 CFR 63 by excluding the valid daily set of observations in the 30-day period that had the highest arithmetic average, exceeds the value of the applicable emission limitation.

(B) Continue to implement such plan provisions until the visible emission limitation for the emission point is achieved for 90 consecutive days if work practice requirements are implemented pursuant to 40 CFR 63.306(c)(1)(i). After the visible emission limitation for a particular emission point is achieved for 90 consecutive days, any exceedances prior to the beginning of the 90 days are not included in making a determination 40 CFR 63.306(c)(1)(i)

(6) Revisions to the work practice emission control plan will be governed by the following provisions in 40 CFR 63.306(d) and (a)(2).

(A) The IDEM, OAQ may request the Permittee to review and revise as needed the work practice emission control plan for a particular emission point if there are 2 exceedances of the applicable visible emission limitation in the 6-month period that starts 30 days after the Permittee is required to implement work practices under40 CFR 63.306(c). In the case of a coke oven battery subject to visual emission limitations under this subpart, the second exceedance must be independent under the criteria in 40 CFR 63.306(c)(1)(i).

(B) The IDEM, OAQ may not request the Permittee to review and revise the plan more than twice in any 12 consecutive month period for any particular emission point unless the IDEM, OAQ disapprove the plan according to the provisions of 40 CFR 63.306(d)(6).

(C) If the certified observer calculates that a second exceedance (or, if applicable, a second independent exceedance) has occurred, the certified observer shall notify the Permittee. No later than 10 days after receipt of such a notification, the Permittee shall notify the IDEM, OAQ of any finding of whether work practices are related to the cause or the solution of the problem. This notification is subject to review by the IDEM, OAQ, according to the provisions in 40 CFR 63.306(d)(6).

(D) The Permittee shall submit a revised work practice plan within 60 days of notification from the IDEM, OAQ pursuant to 40 CFR 63.306(d)(1) unless IDEM, OAQ grants an extension of time to submit the revised plan.

(E) If the IDEM, OAQ require a plan revision, the IDEM, OAQ may require the plan to address a subject area or areas in addition to those in 40 CFR 63.306(b), if the IDEM, OAQ determine that without plan coverage of such an additional subject area, there is a reasonable probability of further exceedances of the visible emission limitation for the emission point for which a plan revision is required.

(F) The IDEM, OAQ may disapprove a plan revision required under 40 CFR 63.306(d) if the IDEM, OAQ determine that the revised plan is inadequate to prevent exceedances of the visible emission limitation under 40 CFR 63 Subpart L for the emission point for which a plan

revision is required. The IDEM, OAQ may also disapprove the finding that may be submitted pursuant to the 40 CFR 63.303(d)(3) if the IDEM, OAQ determine that a revised plan is needed to prevent exceedances of the applicable visible emission limitations.

(c) Pursuant to 40 CFR 63.307 Standards for Bypass/Bleeder Stacks, the Permittee shall do the following:

(1) Install a bypass/bleeder stack flare system that is capable of controlling 120 percent of the normal gas flow generated by the battery, which shall thereafter be operated and maintained.

(2) Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system.

(3) Each flare shall be designed for a net heating value of 8.9 MJ/scm (240 Btu/scf) if a flare is steam-assisted or air-assisted, or a net value of 7.45 MJ/scm (200 Btu/scf) if the flare is non-assisted.

(4) Each flare shall have either a continuously operable pilot flame or an electronic igniter that meets the requirements of D.2.2 (c)(5) and (6) below.

(5) Each electronic igniter shall meet the following requirements:

(A) Each flare shall be equipped with at least two igniter plugs with redundant igniter transformers;

(B) The ignition units shall be designed failsafe with respect to flame detection thermocouples (i.e., any flame detection thermocouples are used only to indicate the presence of a flame, are not interlocked with the ignition unit, and cannot deactivate the ignition system); and

(C) Integral battery backup shall be provided to maintain active ignition operation for a minimum of 15 minutes during a power failure.

(D) Each electronic igniter shall be operated to initiate ignition when the bleeder valve is not fully closed as indicated by an “OPEN” limit switch.

(6) Each flare constructed that does not have an electronic igniter shall be operated with a pilot flame present at all times as determined by 40 CFR 63.309 (h)(2).

(7) Each flare constructed to meet the requirements of 40 CFR 63.307(b) shall be operated with no visible emissions, as determined by the methods specified in 40 CFR 63.309 (h)(1), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

(d) Pursuant to 40 CFR 63.308 Standards for collecting mains, the Permittee shall do the following:

(1) Inspect the coke oven battery collecting main for leaks at least once daily in accordance with 40 CFR 63, Appendix A, Method 303.

(2) Record the time and date a leak is first observed, the time and date the leak is temporarily sealed, and the time and date of repair.

(3) Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak.

(4) Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the IDEM, OAQ.

(e) Pursuant to 40 CFR 63.310, (Requirements for startups, shut downs and malfunctions) the Permittee shall do the following:

(1) Operate and maintain the coke oven batteries and their pollution control devices at all times including periods of startup, shut down and malfunction in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under 40 CFR 63, Subpart L. Failure to adhere to these requirements shall not constitute a separate violation, if a violation of an applicable performance or work practice standard has also occurred.

(2) Develop and implement a written startup, shut down and malfunction plan that describes procedures for operating the batteries, including associated control equipment, during a period of a startup, shutdown or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and control equipment as quickly as practicable.

(3) During a period of startup, shutdown or malfunction the Permittee shall do the following:

(A) Operate the coke batteries and their control devices according to the procedures in the startup, shut down and malfunction plan.

(B) Malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the Startup Shutdown and Malfunction (SSM) plan.

(C) In order for the provisions of D.2.2(e)(3)(H) to apply with respect to the observation or set of observations for a particular day, notification of a startup, shutdown or malfunction shall be made by the Permittee as follows:

(i) If practicable, to the certified observer, if the observer is at the facility during the occurrence; or

(ii) To the enforcement agency, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the certified observer is not notified, an explanation of why the certified observer was not notified.

(D) The Permittee shall submit a written report to the IDEM within 14 days of a startup, shutdown or malfunction that describes the following:

(i) The time and circumstances of the startup, shutdown or malfunction, and

(ii) Actions taken that might be considered inconsistent with the startup, shutdown or malfunction plan.

(E) Maintain a record of internal reports which form the basis of each malfunction notification.

(F) The Permittee may use the standard operating procedures manual for the batteries, to satisfy the requirements to develop a startup, shutdown or malfunction plan provided the manual meets all the requirements for the SSM plan and is made available for inspection at reasonable times when requested by the IDEM, OAQ.

(G) IDEM may require reasonable revisions of the startup, shutdown or malfunction plan if the plan:

(i) Does not address a startup, shutdown or malfunction event that has occurred;

(ii) Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or

(iii) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.

(H) If the Permittee demonstrates to the satisfaction of the IDEM, OAQ that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:

(i) Constitute a violation of relevant requirements of 40 CFR 63, Subpart L.

(ii) Be used in any compliance determination under 40 CFR 63.309; or

(iii) Be considered for purposes of 40 CFR 63.306, until the IDEM, OAQ have resolved the claim that a startup, shutdown, or malfunction has occurred. If the IDEM, OAQ determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of 40 CFR 63.306, regardless of whether the Permittee further contests such determination. The Permittee's receipt of written notification from the IDEM, OAQ, that a startup, shutdown, or malfunction has not occurred will serve, where applicable under 40 CFR 63.306, as written notification from the certified observer that an exceedance has occurred.

D.2.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 6.8-9-3(a)(8)] [326 IAC 11-3-2(i)]

Pursuant to 326 IAC 6.8-2-38, 326 IAC 6.8-9-3(a)(8) and 326 IAC 11-3-2(i), the PM_{10} emissions from the Nos. 2, 3, 5 and 7 Coke Battery underfiring stacks and Coke Batteries 5/7 baghouse stack CP6050 shall comply with the following:

(a) The PM_{10} emissions from the Coke Battery number 2 underfiring stack CP6040 shall not exceed 32.30 pounds per hour.

(b) The PM_{10} emissions from the Coke Battery number 3 underfiring stack CP6045 shall not exceed 25.50 pounds per hour.

(c) The PM_{10} emissions from the Coke Battery number 5 underfiring stack CP6049 shall not exceed 24.70 pounds per hour.

(d) The PM_{10} emissions from the Coke Battery number 7 underfiring stack CP6053 shall not exceed 21.30 pounds per hour.

(e) The PM_{10} emissions from the Coke Battery number 5/7 pushing emissions control baghouse shall not exceed 0.017 pound PM10 per ton coke produced and 1.28 pounds per hour.

(f) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.2.4 Lake County PM_{10} Coke Battery Emission Requirements [326 IAC 6.8-9]

The Coke Batteries Nos. 2, 3, 5 and 7 shall comply with the following:

(a) Pursuant to 326 IAC 6.8-9-3(a)(1), no visible emissions shall be permitted from more than ten percent (10%) of the observed coke oven doors on any coke oven battery.

(b) Pursuant to 326 IAC 6.8-9-3(a)(2), the visible emissions from the charging operations shall comply with the following:

(1) No visible emissions shall be permitted from the charging system for more than cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods.

(2) A “charging system” means the equipment required to add coal to a coke battery including a larry car, charge ports, jumper pipe and off take pipe.

(c) Pursuant to 326 IAC 6.8-9-3(a)(3), the emissions from the pushing operations shall comply with the following:

(1) The opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins, shall not exceed twenty percent (20%).

(2) The opacity of emissions during the pushing operation shall not exceed twenty percent (20%). The pushing shall be considered to begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

(3) The particulate emissions from the pushing control devices: No. 2 and No.3 Batteries Mobile scrubber cars Nos. 9119, 9120, 9121, and 9122 and No. 5 and No. 7 Coke Batteries Pushing Process Baghouse Stack CP6050 shall not exceed four-hundredths (0.04) pound per ton of coke pushed.

(d) Pursuant to [326 IAC 6.8-9-3(a)(4), no visible emissions shall be permitted from more than three percent (3%) of the total charge port lids on operating ovens of a coke oven battery.

(e) Pursuant to 326 IAC 6.8-9-3(a)(5), visible emissions from the Off take Piping shall comply with the following:

(1) No visible emissions shall be permitted from more than five percent (5%) of the total off take piping on any coke oven battery.

(2) At no time, shall the visible emissions from any gooseneck cap opening exceed twenty percent (20%).

(3) An exclusion from the twenty percent (20%) gooseneck cap opacity limit shall be allowed for two (2) minutes after a gooseneck cap is opened.

(f) Pursuant to 326 IAC 6.8-9-3(a)(6), emissions from gas collector mains shall comply with the following:

(1) No visible emissions shall be permitted from the gas collector mains.

(2) Caps on the collector main shall be exempt from requirement during maintenance.

(g) Pursuant to 326 IAC 6.8-9-3(a)(7)(A), the quench water as applied to the coke shall not exceed one thousand five hundred (1,500) milligrams per liter of total dissolved solids (TDS).

(h) Pursuant to 326 IAC 6.8-9-3(a)(7)(B), the Permittee shall submit the following information regarding its quenching operation in a CCP required to be submitted by 326 IAC 6.8-8-1:

(1) The source of quench water, for example, Lake Michigan water only, or a mixture of Lake Michigan water, spent quench water, process water and miscellaneous sources of non process water.

(2) The volume of quench water and proportion of each source of water.

(i) Pursuant to 326 IAC 6.8-9-3(a)(7)(C), all coke oven towers shall be equipped with baffles. Baffles shall cover ninety-five percent (95%) or more of the cross-sectional area of the exhaust vent or stack for straight quench towers and must be maintained in operable condition. For offset quench towers numbers 2 and 3 at US Steel, the number and arrangement of baffles in the tower shall be maintained as designed. Compliance with the quench tower baffle requirement shall be determined by comparison of the number and arrangement of baffles with the submitted plans.

D.2.5 Emission Limitations for Coke Oven Batteries [326 IAC 11-3-2]

The Coke Batteries Nos. 2, 3, 5 and 7 shall each comply with the following requirements:

(a) Pursuant to 326 IAC 11-3-2(b), the visible emissions from the charging system (including any open charge port, off take system, mobile jumper pipe or larry car) shall not be visible for more than a cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods.

(b) Pursuant to 326 IAC 11-3-2(c), visible emissions shall not be permitted from more than three percent (3%) of the total charge port lids.

(c) Pursuant to 326 IAC 11-3-2(d), no visible emissions shall be permitted from more than five percent (5%) of the total off take piping on any coke oven battery.

(d) Pursuant to 326 IAC 11-3-2(e), no visible emissions shall be permitted from gas collector main on any coke oven battery.

(e) Pursuant to 326 IAC 11-3-2(f), visible emissions shall not be permitted from more than ten percent (10%) of the total coke oven doors on any coke oven battery.

(f) Pursuant to 326 IAC 11-3-2(g), the coke oven batteries pushing emissions requirements shall be as follows:

(1) All coke oven batteries shall be equipped with a device capable of capturing and collecting coke-side particulate matter such that the effluent gas emissions contain no more than four-hundredths (0.04) gram per two (2.0) kilogram of coke pushed.

(2) Such devices shall be designed and operated in compliance with an operating permit to collect ninety percent (90%) of the pushing emissions. If the construction and design of the device have been approved by the commissioner by granting the permit, the device, if operated properly in compliance with the permit conditions, will be assumed to be collecting ninety percent (90%) of the pushing emissions.

(g) Pursuant to 326 IAC 11-3-2(h)(1), the Nos. 1, 2, 3, 5 and 6 quench towers shall not have visible emissions from the quenching of coke with the direct application of water to hot coke unless quenching is conducted under a tower equipped with efficient baffles to impede the release of particulate into the atmosphere. Efficient baffles are baffles taking the form of slats, louvers, screens, or other impediments placed in a configuration within a quench tower to force a change of direction and reduction of velocity of the steam plume to aid in the reduction of particulate matter emitted.

(h) Pursuant to 326 IAC 11-3-2(h)(2), the quench water makeup shall not contain a total dissolved solids content of more than one thousand five hundred (1,500) milligrams per liter.

(i) Pursuant to 326 IAC 11-3-2(i), the visible emissions and particulate emissions from the underfire stacks shall comply with the requirements of Conditions C.1 and D.2.4 of this permit.

D.2.6 Coke Oven Identification [326 IAC 11-3-3]

Pursuant to 326 IAC 11-3-3, the Permittee shall maintain the identity of each coke oven in such a manner that it is easily and readily visible from the topside and on each coke and push-side on every coke oven battery.

D.2.7 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20] [326 IAC 11-3-2(i)]

Pursuant to 326 IAC 7-4.1-20(a)(1)(D), the SO_2 emissions from the Coke Battery underfiring stacks CP6040, CP6045, CP6049 and CP6043 for Nos. 2, 3, 5 and 7 coke batteries shall not exceed the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(D), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit	Emission Limit lb/MMBtu	Emission Limit Lb/hr
No. 2 and 3 Coke Oven Battery Underfiring stacks	1.270 lbs/MMBtu each	251.5 lbs/hr each
No. 5 and 7 Coke Oven Battery Underfiring stacks	1.270 lbs/MMBtu each	158.75 lbs/hr each

(b) Pursuant to 326 IAC 7-4.1-20(b)(4), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit	Emission Limit lb/MMBtu	Emission Limit Lb/hr
No. 2 and 3 Coke Oven Battery Underfiring stacks	0.260 lbs/MMBtu each	51.5 lbs/hr each
No. 5 Coke Oven Battery Underfiring stack	0.270 lbs/MMBtu each	22.8 lbs/hr each
No. 7 Coke Oven Battery Underfiring stack	0.260 lbs/MMBtu each	32.5 lbs/hr each

D.2.8 Nitrogen Oxide (NOx) Limitations PSD [326 IAC 2-2] and Emissions Offsets [326 IAC 2-3]

Pursuant to the Significant Source Modification 089-12880-00121, issued July 26, 2001, the Natural gas usage injected through the coke oven battery natural gas injection jets CPNGI001, CPNGI002 and CPNGI003 shall not exceed 178.7 million cubic feet (MMCF) per 12-consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-2 PSD and 326 IAC 2-3 not applicable for the modification.

D.2.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.2.10 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries - Visible Emissions Inspection Requirements [40 CFR 63.309][326 IAC 20]

(a) Pursuant to 40 CFR Part 63.309, except as otherwise provided, the Permittee shall conduct a performance test each day, 7 days per week, for each coke oven battery. The test results shall be used in accordance with procedures specified in 40 CFR Part 63 Subpart L to determine compliance with each of the applicable visible emission limitations in Condition D.2.3. If a facility pushes and charges only at night, then the facility must at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" will be determined by the enforcement agency.

(1) Each performance test is to be conducted according to the procedures and requirements 40 CFR 63.309 and in 40 CFR 63, Appendix A, Method 303, or 40 CFR Part 60, Appendix A, Methods 9 and 22 (where applicable).

(2) Each performance test is to be conducted by a certified observer.

(3) The certified observer shall complete any reasonable safety training program offered by the Permittee prior to conducting any performance test at a coke oven battery.

(4) Except as otherwise provided in paragraph (a)(5) of 40 CFR 63.309, the Permittee shall pay an inspection fee to the enforcement agency each calendar quarter to defray the costs of the daily performance tests required under paragraph (a) of 40 CFR 63.309.

(A) The inspection fee shall be determined according to the following formula:

F = H x S where

F = Fees to be paid by owner or operator.

H = Total person hours for inspections: 4 hours for 1 coke oven battery, 6.25 hours for 2 coke oven batteries, 8.25 hours for 3 coke oven batteries. For more than 3 coke oven batteries, use these hours to calculate the appropriate estimate of person hours.

S = Current average hourly rate for private visible emission inspectors in the relevant market.

(B) The Permittee shall not be required to pay an inspection fee (or any part thereof) under paragraph (a)(4) of 40 CFR 63.309, for any monitoring or inspection services required by paragraph (a) of 40 CFR 63.309 that the Permittee can demonstrate are covered by other fees collected by the enforcement agency.

(C) Upon request, the enforcement agency shall provide the Permittee information concerning the inspection services covered by any other fees collected by the enforcement agency, and any information relied upon under paragraph (a)(4)(B) of 40 CFR 63.309.

(5) The EPA shall be the enforcement agency during any period of time that a delegation of enforcement authority is not in effect or a withdrawal of enforcement authority under 40 CFR 63.313 is in effect, and the Administrator is responsible for performing the inspections required by this section, pursuant to 40 CFR 63.313(b).

(b) Within thirty (30) days of receiving notification from the Administrator that the EPA is the enforcement agency for a coke oven battery, the Permittee shall enter into a contract providing for the inspections and performance tests required under this section to be performed by a Method 303 certified observer. The inspections and performance tests will be conducted at the expense of the Permittee, during the period that the EPA is the implementing agency.

(c) The enforcement agency shall commence daily performance tests on the applicable date specified in 40 CFR 63.300 (a) or (c).

(d) The certified observer shall conduct each performance test according to the requirements in this paragraph:

(1) The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and off take system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in appendix A 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in sections 3.8 and 3.9 of Method 303 in appendix A 40 CFR Part 63.

(2) If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.

(3) After each performance test for a by-product coke oven battery, the certified observer shall check and record the collecting main pressure according to the procedures in section 6.3 of Method 303 in appendix A to 40 CFR Part 63.

(A) The Permittee shall demonstrate pursuant to Method 303 in appendix A to 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer;

(B) The Permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;

(4) In no case shall the Permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.

(e) Using the observations obtained from each performance test, the enforcement agency shall compute and record, in accordance with the procedures and requirements of Method 303 in appendix A to 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:

(1) The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and off take systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in appendix A to 40 CFR Part 63;

(2) For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in appendix A to 40 CFR Part 63;

(3) For a by-product coke oven battery subject to the small battery emission limitation for coke oven doors pursuant to 40 CFR 63.304(b)(7), the 30-run rolling average of the number of leaking coke oven doors;

(f) The certified observer shall make available to the implementing agency as well as to The Permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to The Permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying an owner or operator of the results obtained by a certified observer, the person does not have to be certified.

(g) Compliance shall not be determined more often than the schedule provided for performance tests under this section. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall be used in any computations performed to determine compliance under 40 CFR 63.309(d) or determinations under 40 CFR 63.306.

(h) For a flare constructed to meet the requirements of 40 CFR 63.307(b):

(1) Compliance with the provisions in 40 CFR 63.307(c) (visible emissions from flares) shall be determined using Method 22 in appendix A to 40 CFR Part 60, with an observation period of 2 hours; and

(2) Compliance with the provisions in 40 CFR 63.307(b)(4) (flare pilot light) shall be determined using a thermocouple or any other equivalent device.

(i) No observations obtained during any program for training or for certifying observers under this subpart shall be used to determine compliance with the requirements of this subpart or any other federally enforceable standard.

D.2.11 Visible Emission Inspections for Charging [326 IAC 11-3-4(a)]

(a) Pursuant to 326 IAC 11-3-4(a) and in order to demonstrate compliance with Conditions D.2.5(a) and D.2.4(b), the observations shall be made and the identity recorded from any point or points on the topside of a coke oven battery such that the observer can obtain an unobstructed view of the charging operation. The observer shall keep cumulative time of the total number of seconds charging emissions are visible. Time is started when a visible emission appears and is stopped when the visible emission expires. This procedure shall continue throughout the entire charging period. Visible emissions occurring simultaneously from two (2) or more separate points shall be timed as one (1).

(b) Visible emissions shall not be timed from:

(1) Burning coal spilled on the top of the oven or oven lids during charging

(2) Any equipment other than the charging system or charge ports.

(3) Standpipes during charging.

(4) Charge port lids and the standpipe on the oven most recently charged.

(5) Coke oven doors which may be wind-blown across the topside of a coke oven battery.

(6) Steam from uncombined water.

(c) The time retained is the total time visible emissions are observed during a charge and shall be recorded on a data sheet. If the observations of a consecutive set of five (5) charges are interrupted by an event not in the control of the observer, for example momentary interference by a passing quench car plume, then the data for the interrupted charge(s) shall be discarded and additional consecutive charges shall be observed. Five (5) charges observed as such shall be treated as consecutive charges.

(d) The observer shall discard the data for the charge observed, during each set, which contains the greatest cumulative total number of seconds during which emissions are visible. A set shall consist of the total number of consecutive charges read by the observer during any one (1) observation period, but in no event shall a set exceed twenty (20) consecutive charges.

D.2.12 Charge Port Lids and Off take Piping - Emissions Testing [326 IAC 11-3-4(b)]

Pursuant to 326 IAC 11-3-4(b) and in order to determine compliance with conditions D.2.5(b) and (c) and D.2.4(d) and (e), the observer shall walk the length of the topside of a coke oven battery, on a line down the middle of the battery, or as close as safety permits, to record the identity of standpipes in a single traverse and charge port lids in a single traverse that have any visible emissions.

(a) Visible emissions shall not be counted from:

(1) Burning coal spilled on the top of the oven or oven lids.

(2) Charge port lids and standpipe lids, from a maximum of three (3) ovens that are opened during a decarbonization period or charging period.

(3) The standpipe on an oven being charged.

(4) Resulting from maintenance work.

(5) Steam caused by the vaporization of wet luting material.

(6) Steam from uncombined water.

(b) Visible emissions from charge port lids shall include all emissions from the charge port casting/lid interface.

(c) Visible emissions from the off take piping assembly shall include any leaks from the following:

(1) Cracks and/or defects in the piping itself.

(2) Flanged joints of any pipes, including the final joint with the collector main.

(3) The standpipe base.

(4) The standpipe lid or along its seal with the standpipe.

(5) Off take piping assembly which is not contained in one (1) of the categories in this subdivision.

D.2.13 Visible Emissions for Oven Doors [326 IAC 11-3-4(c)]

(a) Pursuant to 326 IAC 11-3-4(c) and in order to demonstrate compliance with Conditions D.2.5(e) and D.2.4(a), an observer shall record the starting time of the inspection, then shall move steadily along the push-side or coke-side of a coke oven battery, stopping only to record the identity of any doors of ovens not temporarily or permanently taken out of service that have visible emissions, but not including visible emissions due to steam from uncombined water. The inspector shall have any of the following options:

(1) To wait for any doors which are blocked from the inspector's view to becomes unobstructed.

(2) To continue the inspection and return when the view of the doors becomes unobstructed.

(3) To exclude the obstructed doors from the calculation of the total number of doors observed.

(b) The finishing time of that inspection shall be recorded followed by the inspector repeating the same procedure on the opposite side of the same battery. The inspector shall be positioned either outside of the quench car tracks on the coke-side of the battery or outside of the push-side bench. After a brief scan of a coke oven door, the observer shall proceed in the inspection checking each succeeding door in a like manner.

D.2.14 Visible Emissions Inspections for Gas Collector Main [326 IAC 11-3-4(e)]

Pursuant to 326 IAC 11-3-4(e) and in order to determine compliance with conditions D.2.5(d) and D.2.4(f), the observer shall walk the length of the topside of the gas collector main, to record the number of points in a single traverse from which emissions are visible.

D.2.15 Visible Emissions Inspections Pushing [326 IAC 6.8-9-3(a)(3)]

(a) Pursuant to 326 IAC 6.8-9-3(a)(3)(A) and in order to determine compliance with Condition D.2.4(c)(1), the opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins shall be determined on an instantaneous basis at the top of the battery. The observer shall be positioned outside of the quench car rails.

(b) Pursuant to 326 IAC 6.8-9-3(a)(3)(B) and in order to determine compliance with Condition D.2.4(c)(2), the opacity of emissions from the pushing operations (begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower), shall be determined using 40 CFR 60, Appendix A, Method 9, except the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

D.2.16 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the latest valid compliance demonstration, which ever is earlier, in order to demonstrate compliance with Condition D.2.3, the Permittee shall perform PM_{10} testing on the No. 5 and 7 Coke Batteries Pushing Baghouse Stack CP6050, using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one half (2 ½) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or five (5) years from the date of the latest valid compliance demonstration, which ever is earlier, in order to demonstrate compliance with Condition D.2.3, the Permittee shall perform PM_{10} testing on the No. 2, No. 3, No.5 and No. 7 coke batteries underfire Stacks CP6040, CP6045, CP6049 and CP6053, using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.2.17 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2)]

To demonstrate compliance with condition D.2.7, the Permittee shall perform the Sulfur Fuel Sampling and Analysis in accordance with Section C - Sulfur Fuel Sampling and Analysis of this permit.

D.2.18 Particulate Matter Control [326 IAC 2-7-6(6)]

(a) Except as otherwise provided by statute, rule, or this permit, PM control shall be as follows:

(1) The mobile scrubber cars 9119, 9120, 9121 and/or 9122 shall be in operation at all times, when the No. 2 and/or 3 Coke Batteries pushing processes are in operation to control particulate matter.

(2) The baghouse CP3041 shall be in operation at all times, when the No. 5 and/or 7 Coke Batteries pushing processes are in operation, to control particulate matter.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.2.19 Visible Emissions Notations

(a) Visible emission notations of the No. 2 and No.3 Coke Oven Battery: mobile scrubber cars 9119, 9120, 9121 and 9122 and the No. 5 and No. 7 Coke Oven Battery: pushing bag house stack CP6050 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed**,** the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

D.2.20 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouse CP3041 used in conjunction with No. 5 and No. 7 coke oven batteries pushing operations at least once per day when pushing is occurring. When for any one reading, the pressure drop across each baghouse is outside the normal range of 3 to 15 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(b) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

(c) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

D.2.21 Continuous Opacity Monitoring (COM) [326 IAC 3-5]

Pursuant to 326 IAC 3-5, the continuous monitoring system shall be calibrated, maintained and operated to measure the opacity of the exhaust from the Nos. 2, 3, 5 and 7 Coke Battery underfiring stacks CP6040, CP6045, CP6049 and CP6053. The continuous opacity monitoring system shall be certified in accordance with and meet the performance specifications of 326 IAC 3-5-2.

D.2.22 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.

(b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.

(c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(d) Whenever a COMS is malfunctioning or is down for maintenance, or repairs for a period of twenty four (24) hours or more, and a backup COMS is not on line within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.

(1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.

(2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings until a COMS is on line.

(3) Method 9 readings may be discontinued once a COM is online.

(4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

(5) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances**.** Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

(e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 63).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.23 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries -Record Keeping and Reporting Requirements [40 CFR 63.311][326 IAC 20]

(a) To document compliance with Condition D.2.2, the Permittee shall maintain the following records:

(1) A copy of the work practice plan for each emission point, any revisions and the following:

(A) All audiovisual and written training materials,

(B) Dates of each training class,.

(C) Names of participants in each class; and

(D) Documentation that all appropriate personnel have successfully completed the training required in condition D.2.2(b)(4)(A).

(2) Records required to be maintained by the work practice plan provisions implemented under 40 CFR 63.306 (b)(7);

(3) Records resulting from audits of the effectiveness of the work practice plan for the particular emission point;

(4) Records of the inventory of coke oven doors and jambs;

(5) The design drawings and engineering specifications for the bypass/bleeder stack flare system; and

(6) Records specified in 40 CFR Part 63.310(f) regarding the basis of each malfunction.

(b) The Permittee shall include the following information in the semi-annual compliance certification:

(1) Certification, signed by the responsible official, that no coke oven gas was vented, except through the bypass/bleeder stack flare system of a by-product coke oven battery during the reporting period or that venting report has been submitted in accordance with 40 CFR 63.311(e).

(2) Certification, signed by the responsible official, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, or malfunction event did occur and a report was submitted in accordance with 40 CFR 63.310(e).

(3) Certification, signed by the responsible official, that work practices were implemented if applicable under 40 CFR 63.306.

D.2.24 Record Keeping Requirements

(a) To document compliance with Condition D.2.21, the Permittee shall maintain records of the continuous opacity monitoring (COM) data in accordance with 326 IAC 3-5. Records shall be complete and sufficient to establish compliance with the limits established in this section. When the COM system is not functioning, the Permittee shall maintain records sufficient to demonstrate compliance D.2.22.

(b) To document compliance with Condition D.2.7, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the natural gas usage for 12 month consecutive periods, with compliance demonstrated at the end of each month.

(d) To document compliance with Condition D.2.19, the Permittee shall maintain records of the once per day visible emissions notations of the stack exhausts.

(e) To document compliance with Condition D.2.20, the Permittee shall maintain records of the once per day pressure drop during normal operation.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.25 Reporting Requirements

(a) A quarterly report of opacity exceedances shall be submitted to the address listed in Section C -General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

(b) A quarterly summary report to document compliance with condition D.2.7 shall be submitted to IDEM accordance with Section C – Sulfur Dioxide SO_2 Reporting Requirements (Entire Source).

(c) A quarterly summary of the natural gas usage to document compliance with Condition D.2.8, shall be submitted in accordance with Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, within thirty (30) days after the end of the quarter being reported.

(d) The reports submitted by the Permittee do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching and Battery Stacks 40 CFR 63, Subpart CCCCC]

D.2.26 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching and Battery Stacks 40 CFR 63, Subpart CCCCC]

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart CCCCC—National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks

Source: 68 FR 18025, Apr. 14, 2003, unless otherwise noted.

What This Subpart Covers

§63.7280 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for pushing, soaking, quenching, and battery stacks at coke oven batteries. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations, work practice standards, and operation and maintenance requirements in this subpart.

§63.7281 Am I subject to this subpart?

You are subject to this subpart if you own or operate a coke oven battery at a coke plant that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7282 What parts of my plant does this subpart cover?

(a) This subpart applies to each new or existing affected source at your coke plant. The affected source is each coke oven battery.

(b) This subpart covers emissions from pushing, soaking, quenching, and battery stacks from each affected source.

(c) An affected source at your coke plant is existing if you commenced construction or reconstruction of the affected source before July 3, 2001.

(d) An affected source at your coke plant is new if you commenced construction or reconstruction of the affected source on or after July 3, 2001. An affected source is reconstructed if it meets the definition of “reconstruction” in §63.2.

§63.7283 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you no later than April 14, 2006.

(d) You must meet the notification and schedule requirements in §63.7340. Several of these notifications must be submitted before the compliance date for your affected source.

[68 FR 18025, Apr. 14, 2003; 68 FR 19885, Apr. 22, 2003]

Emission Limitations and Work Practice Standards

§63.7290 What emission limitations must I meet for capture systems and control devices applied to pushing emissions?

(a) You must not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from a new or existing coke oven battery that exceed the applicable limit in paragraphs (a)(2) through (3) of this section:

(2) 0.02 pound per ton (lb/ton) of coke if a moveable hood vented to a stationary control device is used to capture emissions;

(3) If a mobile scrubber car that does not capture emissions during travel is used:

0.01 lb/ton of coke for a control device applied to pushing emissions from a tall battery.

(b) You must meet each operating limit in paragraphs (b)(1) through (4) of this section that applies to you for a new or existing coke oven battery.

(1) For each venturi scrubber applied to pushing emissions, you must maintain the daily average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) (i) For each capture system that uses an electric motor to drive the fan, you must maintain the daily average fan motor amperes at or above the minimum level established during the initial performance test; and

(ii) For each capture system that does not use a fan driven by an electric motor, you must maintain the daily average static pressure at the inlet to the control device at an equal or greater vacuum than the level established during the initial performance test or maintain the daily average fan revolutions per minute (RPM) at or above the minimum level established during the initial performance test.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60818, Oct. 13, 2004]

§63.7291 What work practice standards must I meet for fugitive pushing emissions if I have a by-product coke oven battery with vertical flues?

(a) You must meet each requirement in paragraphs (a)(1) through (7) of this section for each new or existing by-product coke oven battery with vertical flues.

(1) Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).

(2) If two or more batteries are served by the same pushing equipment and total no more than 90 ovens, the batteries as a unit can be considered a single battery.

(3) Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day.

(4) Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day.

Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day.

(5) If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater:

X = 0.55 * Y(Eq. 1)

Where:

X = Number of calendar days allowed to complete corrective action or increase coking time; and

Y = Current coking time for the oven, hours.

For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.

(6)(i) You must demonstrate that the corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph (a)(5) of this section, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in paragraph (a)(5) of this section.

(ii) After implementing any additional corrective action and/or increased coking time required under paragraph (a)(6)(i) or (a)(7)(ii) of this section, you must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph (a)(5) of this section, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must follow the procedures in paragraph (a)(6)(iii) of this section.

(iii) If the corrective action and/or increased coking time was unsuccessful as described in paragraph (a)(6)(ii) of this section, you must repeat the procedures in paragraph (a)(6)(ii) of this section until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under paragraph (a)(6)(ii) of this section.

(7)(i) If at any time you place an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using the procedures in paragraph (a)(7)(ii) or (a)(7)(iii) of this section.

(ii) To qualify for a decreased coking time for an oven placed on increased coking time in accordance with paragraph (a)(5) or (6) of this section, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the

decreased coking time and return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph (a)(6)(ii) of this section to confirm that the corrective action(s) and/or increased coking time was successful.

(iii) If the attempt to qualify for decreased coking time was unsuccessful as described in paragraph (a)(7)(ii) of this section, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph (a)(6)(ii) of this section to confirm that the corrective action(s) and/or increased coking time was successful.

(iv) You must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in paragraph (a)(7)(iii) of this section.

(b) As provided in §63.6(g), you may request to use an alternative to the work practice standards in paragraph (a) of this section.

§63.7294 What work practice standard must I meet for soaking?

(a) For each new and existing by-product coke oven battery, you must prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:

(1) Train topside workers to identify soaking emissions that require corrective actions.

(2) Damper the oven off the collecting main prior to opening the standpipe cap.

(3) Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.

(4) If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.

(5) If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.

(b) As provided in §63.6(g), you may request to use an alternative to the work practice standard in paragraph (a) of this section.

§63.7295 What requirements must I meet for quenching?

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section for each quench tower and backup

quench station at a new or existing coke oven battery.

(1) For the quenching of hot coke, you must meet the requirements in paragraph (a)(1)(i) or (ii) of this section.

(i) The concentration of total dissolved solids (TDS) in the water used for quenching must not exceed 1,100 milligrams per liter (mg/L); or

(ii) The sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used for quenching must not exceed the applicable site-specific limit approved by the permitting authority.

(2) You must use acceptable makeup water, as defined in §63.7352, as makeup water for quenching.

(b) For each quench tower at a new or existing coke oven battery and each backup quench station at a new coke oven battery, you must meet each of the requirements in paragraphs (b)(1) through (4) of this section.

(1) You must equip each quench tower with baffles such that no more than 5 percent of the cross sectional area of the tower may be uncovered or open to the sky.

(2) You must wash the baffles in each quench tower once each day that the tower is used to quench coke, except as specified in paragraphs (b)(2)(i) and (ii) of this section.

(i) You are not required to wash the baffles in a quench tower if the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the day, you must resume daily washing according to the schedule in your operation and maintenance plan.

(ii) You must continuously record the ambient temperature on days that the baffles were not washed.

(3) You must inspect each quench tower monthly for damaged or missing baffles and blockage.

(4) You must initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

(c) As provided in §63.6(g), you may request to use an alternative to the work practice standards in paragraph (b) of this section.

§63.7296 What emission limitations must I meet for battery stacks?

You must not discharge to the atmosphere any emissions from any battery stack at a new or existing by-product coke oven battery that exhibit an opacity greater than the applicable limit in paragraphs (a) and (b) of this section.

(a) Daily average of 15 percent opacity for a battery on a normal coking cycle.

(b) Daily average of 20 percent opacity for a battery on batterywide extended coking.

Operation and Maintenance Requirements

§63.7300 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of new or existing by-product coke oven batteries. Each plan must address, at

a minimum, the elements listed in paragraphs (b)(1) through (6) of this section.

(1) Frequency and method of recording underfiring gas parameters.

(2) Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.

(3) Procedures to prevent pushing an oven before it is fully coked.

(4) Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.

(5) Frequency and procedures for inspecting flues, burners, and nozzles.

(6) Schedule and procedures for the daily washing of baffles.

(c) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from a new or existing coke oven battery. Each plan must address at a minimum the elements in paragraphs (c)(1) through (3) of this section.

(1) Monthly inspections of the equipment that are important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered. The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the approval process.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions.

[68 FR 18025, Apr. 14, 2003, as amended at 70 FR 44289, Aug. 2, 2005]

General Compliance Requirements

§63.7310 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7283 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 18025, Apr. 14, 2003, as amended at 71 FR 20467, Apr. 20, 2006]

Initial Compliance Requirements

§63.7320 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) As required in §63.7(a)(2), you must conduct a performance test to demonstrate compliance with each limit in §63.7290(a) for emissions of particulate matter from a control device applied to pushing emissions that applies to you within 180 calendar days after the compliance date that is specified in §63.7283.

(b) You must conduct performance tests to demonstrate compliance with the TDS limit or constituent limit for quench water in §63.7295(a)(1) and each opacity limit in §63.7297(a) for a by-product coke oven battery stack by the compliance date that is specified in §63.7283.

(c) For each work practice standard and operation and maintenance requirement that applies to you, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified in §63.7283.

§63.7321 When must I conduct subsequent performance tests?

For each control device subject to an emission limit for particulate matter in §63.7290(a), you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

§63.7322 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in paragraph (b) of this section.

(b) To determine compliance with a process-weighted mass rate of particulate matter (lb/ton of coke) from a control device applied to pushing emissions where a cokeside shed is not used, follow the test methods and procedures in paragraphs (b)(1) through (4) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to 40 CFR part 60.

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at

the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.

(2) During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 30 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (*i.e.*, sample for an integral number of pushes).

(3) Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.

(4) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows:

$$E_p = \frac{C \times Q \times T}{P \times K} \qquad \text{(Eq. 1)}$$

Where:

E_p = Process weighted mass emissions of particulate matter, lb/ton;

C = Concentration of particulate matter, gr/dscf;

Q = Volumetric flow rate of stack gas, dscf/hr;

T = Total time during a run that a sample is withdrawn from the stack during pushing, hr;

P = Total amount of coke pushed during the test run, tons; and

K = Conversion factor, 7,000 gr/lb.

[68 FR 18025, Apr. 14, 2003, as amended at 70 FR 44289, Aug. 2, 2005]

§63.7323 What procedures must I use to establish operating limits?

(a) For a venturi scrubber applied to pushing emissions from a coke oven battery, you must establish site-specific operating limits for pressure drop and scrubber water flow rate according to the procedures in paragraphs (a)(1) and (2) of this section.

(1) Using the continuous parameter monitoring systems (CPMS) required in §63.7330(b), measure and record the pressure drop and scrubber water flow rate for each particulate matter test run during periods of pushing. A minimum of one pressure drop measurement and one scrubber water flow rate measurement must be obtained for each push.

(2) Compute and record the average pressure drop and scrubber water flow rate for each test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate values recorded during any of the three

runs that meet the applicable emission limit.

(c) For a capture system applied to pushing emissions from a coke oven battery, you must establish a site-specific operating limit according to the procedures in paragraphs (c)(1), (2), or (3) of this section.

(2) If you elect the operating limit in §63.7290(b)(3)(i) for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.

(3) If you elect the operating limit in §63.7290(b)(3)(ii) for static pressure or fan RPM, measure and record the static pressure at the inlet of the control device or fan RPM during each push sampled for each particulate matter test run. Your operating limit for static pressure is the minimum vacuum recorded during any of the three runs that meets the emission limit. Your operating limit for fan RPM is the lowest fan RPM recorded during any of the three runs that meets the emission limit.

(e) You may change the operating limit for a venturi scrubber, capture system, or mobile control device that captures emissions during pushing if you meet the requirements in paragraphs (e)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (d) of this section.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60818, Oct. 13, 2004]

§63.7324 What procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in paragraph (b) of this section.

(b) To determine compliance with the daily average opacity limit for stacks of 15 percent for a by-product coke oven battery on a normal coking cycle or 20 percent for a by-product coke oven battery on batterywide extended coking, follow the test methods and procedures in paragraphs (b)(1) through (3) of this section.

(1) Using the continuous opacity monitoring system (COMS) required in §63.7330(e), measure and record the opacity of emissions from each battery stack for a 24-hour period.

(2) Reduce the monitoring data to hourly averages as specified in §63.8(g)(2).

(3) Compute and record the 24-hour (daily) average of the COMS data.

§63.7325 What test methods and other procedures must I use to demonstrate initial compliance with the TDS or constituent limits for quench water?

Need to know which option USS has elected to do (a), (b) or (c)?

(a) If you elect the TDS limit for quench water in §63.7295(a)(1)(i), you must conduct each performance test that applies to your affected source according to the conditions in paragraphs (a)(1) and (2) of this section.

(1) Take the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (*e.g.,* from the header that feeds water to the quench tower reservoirs). Conduct sampling under

normal and representative operating conditions.

(2) Determine the TDS concentration of the sample using Method 160.1 in 40 CFR part 136.3 (see "residue—filterable"), except that you must dry the total filterable residue at 103 to 105 °C (degrees Centigrade) instead of 180 °C.

(b) If at any time you elect to meet the alternative requirements for quench water in §63.7295(a)(1)(ii), you must establish a site-specific constituent limit according to the procedures in paragraphs (b)(1) through (4) of this section.

(1) Take a minimum of nine quench water samples from a location that provides a representative sample of the quench water as applied to the coke (*e.g.,* from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.

(2) For each sample, determine the TDS concentration according to the requirements in paragraph (a)(2) of this section and the concentration of benzene, benzo(a)pyrene, and naphthalene using the applicable methods in 40 CFR part 136 or an approved alternative method.

(3) Determine and record the highest sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in any sample that has a TDS concentration less than or equal to the TDS limit of 1,100 mg/L. This concentration is the site-specific constituent limit.

(4) Submit the site-specific limit, sampling results, and all supporting data and calculations to your permitting authority for review and approval.

§63.7326 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each coke oven battery subject to the emission limit for particulate matter from a control device applied to pushing emissions, you have demonstrated initial compliance if you meet the requirements in paragraphs (a)(1) through (4) of this section that apply to you.

(1) The process-weighted mass rate of particulate matter (lb/ton of coke), measured in accordance with the performance test procedures in §63.7322(b)(1) through (4), did not exceed:

(i) 0.02 lb/ton of coke if a moveable hood vented to a stationary control device is used to capture emissions;

(ii) If a mobile scrubber car that does not capture emissions during travel is used, 0.01 lb/ton of coke from a control device applied to pushing emissions from a tall coke oven battery;

(2) For each venturi scrubber applied to pushing emissions, you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7323(a).

(4) For each capture system applied to pushing emissions, you have established an appropriate site-specific operating limit, and:

(ii) If you elect the operating limit in §63.7290(b)(3)(i) for fan motor amperes, you have a record of the fan motor amperes during the performance test in accordance with §63.7323(c)(2); or

(iii) If you elect the operating limit in §63.7290(b)(3)(ii) for static pressure or fan RPM, you have a record of the static pressure at the inlet of the control device or fan RPM measured during the performance test in accordance with §63.7323(c)(3).

(b) For each new or existing by-product coke oven battery subject to the opacity limit for stacks in §63.7296(a), you have demonstrated initial compliance if the daily average opacity, as measured according to the performance test procedures in §63.7324(b), is no more than 15 percent for a battery on a normal coking cycle or 20 percent for a

battery on batterywide extended coking.

(c) For each new or existing by-product coke oven battery subject to the TDS limit or constituent limits for quench water in §63.7295(a)(1),

(1) You have demonstrated initial compliance with the TDS limit in §63.7295(a)(1)(i) if the TDS concentration, as measured according to the performance test procedures in §63.7325(a), does not exceed 1,100 mg/L.

(2) You have demonstrated initial compliance with the constituent limit in §63.7295(a)(1)(ii) if:

(i) You have established a site-specific constituent limit according to the procedures in §63.7325(b); and

(ii) The sum of the constituent concentrations, as measured according to the performance test procedures in §63.7325(c), is less than or equal to the site-specific limit.

(d) For each by-product coke oven battery stack subject to an opacity limit in §63.7296(a) and each by-product coke oven battery subject to the requirements for quench water in §63.7295(a)(1), you must submit a notification of compliance status containing the results of the COMS performance test for battery stacks and the quench water performance test (TDS or constituent limit) according to §63.7340(e)(1). For each particulate matter emission limitation that applies to you, you must submit a notification of compliance status containing the results of the performance test according to §63.7340(e)(2).

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7327 How do I demonstrate initial compliance with the work practice standards that apply to me?

(a) For each by-product coke oven battery with vertical flues subject to the work practice standards for fugitive pushing emissions in §63.7291(a), you have demonstrated initial compliance if you certify in your notification of compliance status that you will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(d) For each by-product coke oven battery subject to the work practice standards for soaking in §63.7294, you have demonstrated initial compliance if you have met the requirements of paragraphs (d)(1) and (2) of this section:

(1) You have prepared and submitted a written work practice plan in accordance with §63.7294(a); and

(2) You certify in your notification of compliance status that you will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(e) For each coke oven battery, you have demonstrated initial compliance with the work practice standards for quenching in §63.7295(b) if you certify in your notification of compliance status that you have met the requirements of paragraphs (e)(1) and (2) of this section:

(1) You have installed the required equipment in each quench tower; and

(2) You will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(f) For each work practice standard that applies to you, you must submit a notification of compliance status according to the requirements in §63.7340(e)(1).

§63.7328 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

You have demonstrated initial compliance if you certify in your notification of compliance status that you have met

the requirements of paragraphs (a) through (d) of this section:

(a) You have prepared the operation and maintenance plans according to the requirements in §63.7300(b) and (c);

(b) You will operate each by-product coke oven battery and each capture system and control device applied to pushing emissions from a coke oven battery according to the procedures in the plans beginning no later than the compliance date that is specified in §63.7283;

(c) You have prepared a site-specific monitoring plan according to the requirements in §63.7331(b); and

(d) You submit a notification of compliance status according to the requirements in §63.7340(e).

Continuous Compliance Requirements

§63.7330 What are my monitoring requirements?

(a) For each baghouse applied to pushing emissions from a coke oven battery, you must at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in §63.7331(a) and conduct inspections at their specified frequency according to the requirements in paragraphs (a)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;

(3) Check the compressed air supply for pulse-jet baghouses each day;

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology;

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(b) For each venturi scrubber applied to pushing emissions, you must at all times monitor the pressure drop and water flow rate using a CPMS according to the requirements in §63.7331(e).

(d) For each capture system applied to pushing emissions, you must at all times monitor the volumetric flow rate according to the requirements in §63.7331(g), the fan motor amperes according to the requirements in §63.7331(h), or the static pressure or the fan RPM according to the requirements in §63.7331(i).

(e) For each by-product coke oven battery, you must monitor at all times the opacity of emissions exiting each stack using a COMS according to the requirements in §63.7331(j).

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7331 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each baghouse applied to pushing emissions, you must install, operate, and maintain each bag leak detection system according to the requirements in paragraphs (a)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;

(2) The system must provide output of relative changes in particulate matter loadings;

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance” (EPA–454/R–98–015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(e) For each venturi scrubber applied to pushing emissions, you must install, operate, and maintain CPMS to measure and record the pressure drop across the scrubber and scrubber water flow rate during each push according to the requirements in paragraphs (b) through (d) of this section except as specified in paragraphs (e)(1) through (3) of this section.

(1) Each CPMS must complete a measurement at least once per push;

(2) Each CPMS must produce valid data for all pushes; and

(3) Each CPMS must determine and record the daily (24-hour) average of all recorded readings.

(h) If you elect the operating limit in §63.7290(b)(3)(i) for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.

(i) If you elect the operating limit in §63.7290(b)(3)(ii) for a capture system applied to pushing emissions, you must install, operate and maintain a device to measure static pressure at the inlet of the control device or the fan RPM.

(j) For each by-product coke oven battery, you must install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in paragraphs (j)(1) through (5) of this section.

(1) You must install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR part 60, appendix B. Identify periods the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.

(2) You must conduct a performance evaluation of each COMS according to the requirements in §63.8 and

Performance Specification 1 in appendix B to 40 CFR part 60;

(3) You must develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS;

(4) Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).

(5) You must determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7332 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times the affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7333 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) For each control device applied to pushing emissions and subject to the emission limit in §63.7290(a), you must demonstrate continuous compliance by meeting the requirements in paragraphs (a)(1) and (2) of this section:

(1) Maintaining emissions of particulate matter at or below the applicable limits in paragraphs §63.7290(a)(1) through (4); and

(2) Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than twice during each term of your title V operating permit (at mid-term and renewal).

(b) For each venturi scrubber applied to pushing emissions and subject to the operating limits in §63.7290(b)(1), you must demonstrate continuous compliance by meeting the requirements in paragraphs (b)(1) through (3) of this section.

(1) Maintaining the daily average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test.

(2) Operating and maintaining each CPMS according to §63.7331(b) and recording all information needed to document conformance with these requirements.

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7331(e)(1) through (3).

(d) For each capture system applied to pushing emissions and subject to the operating limit in §63.7290(b)(3), you must demonstrate continuous compliance by meeting the requirements in paragraph (d)(1), (2), or (3) of this

section:

(2) If you elect the operating limit for fan motor amperes in §63.7290(b)(3)(i):

(i) Maintaining the daily average fan motor amperages at or above the minimum level established during the initial or subsequent performance test; and

(ii) Checking the fan motor amperage at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.

(3) If you elect the operating limit for static pressure or fan RPM in §63.7290(b)(3)(ii):

(i) Maintaining the daily average static pressure at the inlet to the control device at an equal or greater vacuum than established during the initial or subsequent performance test or the daily average fan RPM at or above the minimum level established during the initial or subsequent performance test; and

(ii) Checking the static pressure or fan RPM at least every 8 hours to verify the daily average static pressure at the inlet to the control device is at an equal or greater vacuum than established during the initial or subsequent performance test or the daily average fan RPM is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.

(e) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in §63.7296(a) by meeting the requirements in paragraphs (e)(1) and (2) of this section:

(1) Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and

(2) Operating and maintaining a COMS and collecting and reducing the COMS data according to §63.7331(j).

(f) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance with the TDS limit for quenching in §63.7295(a)(1)(i) by meeting the requirements in paragraphs (f)(1) and (2) of this section:

(1) Maintaining the TDS content of the water used to quench hot coke at 1,100 mg/L or less; and

(2) Determining the TDS content of the quench water at least weekly according to the requirements in §63.7325(a) and recording the sample results.

(g) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance with the constituent limit for quenching in §63.7295(a)(1)(ii) by meeting the requirements in paragraphs (g)(1) and (2) of this section:

(1) Maintaining the sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used to quench hot coke at levels less than or equal to the site-specific limit approved by the permitting authority; and

(2) Determining the sum of the constituent concentrations at least monthly according to the requirements in §63.7325(c) and recording the sample results.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7334 How do I demonstrate continuous compliance with the work practice standards that apply to me?

(a) For each by-product coke oven battery with vertical flues subject to the work practice standards for fugitive

pushing emissions in §63.7291(a), you must demonstrate continuous compliance according to the requirements of paragraphs (a)(1) through (8) of this section:

(1) Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by §63.7291(a)(3). Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to §63.7291(a)(4).

(2) Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in paragraphs (a)(1) through (8) of this section.

(3) Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in appendix A to 40 CFR part 60 using a Method 9 certified observer unless you have an approved alternative procedure under paragraph (a)(7) of this section.

(4) Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (appendix A to 40 CFR part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii)(B) for obtaining at least 3 hours of observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.

(5) If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (*e.g.,* as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.

(6) Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.

(i) For a battery without a cokeside shed, observe fugitive pushing emissions from a position at least 10 meters from the quench car that provides an unobstructed view and avoids interferences from the topside of the battery. This may require the observer to be positioned at an angle to the quench car rather than perpendicular to it. Typical interferences to avoid include emissions from open standpipes and charging. Observe the opacity of emissions above the battery top with the sky as the background where possible. Record the oven number of any push not observed because of obstructions or interferences.

(iii) You may reposition after the push to observe emissions during travel if necessary.

(7) If it is infeasible to implement the procedures in paragraphs (a)(1) through (6) of this section for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to your permitting authority for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in paragraphs (a)(1) through (6) of this section, identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.

(8) For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with §63.7291(a). Maintain records documenting conformance with the requirements in §63.7291(a).

(d) For each by-product coke oven battery subject to the work practice standard for soaking in §63.7294(a), you must demonstrate continuous compliance by maintaining records that document conformance with requirements in §63.7294(a)(1) through (5).

(e) For each coke oven battery subject to the work practice standard for quenching in §63.7295(b), you must demonstrate continuous compliance according to the requirements of paragraphs (e)(1) through (3) of this section:

(1) Maintaining baffles in each quench tower such that no more than 5 percent of the cross-sectional area of the tower is uncovered or open to the sky as required in §63.7295(b)(1);

(2) Maintaining records that document conformance with the washing, inspection, and repair requirements in §63.7295(b)(2), including records of the ambient temperature on any day that the baffles were not washed; and

(3) Maintaining records of the source of makeup water to document conformance with the requirement for acceptable makeup water in §63.7295(a)(2).

§63.7335 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each by-product coke oven battery, you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7300(b) by adhering at all times to the plan requirements and recording all information needed to document conformance.

(b) For each coke oven battery with a capture system or control device applied to pushing emissions, you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7300(c) by meeting the requirements of paragraphs (b)(1) through (3) of this section:

(1) Making monthly inspections of capture systems according to §63.7300(c)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance for each control device according to §63.7300(c)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7300(c)(3) and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.

(c) To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in §63.7331(a), you must inspect and maintain each baghouse according to the requirements in §63.7331(a)(1) through (8) and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7331(a)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(d) You must maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7336 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in this subpart that applies to you. This includes periods of startup, shutdown, and malfunction. You must also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in this subpart that applies to you. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7341.

(b) *Startup, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or

malfunction are violations, according to the provisions in §63.6(e).

[68 FR 18025, Apr. 14, 2003, as amended at 71 FR 20467, Apr. 20, 2006]

Notification, Reports, and Records

§63.7340 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before April 14, 2003, you must submit your initial notification no later than August 12, 2003.

(c) As specified in §63.9(b)(3), if you startup your new affected source on or after April 14, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following completion of the performance test according to §63.10(d)(2).

§63.7341 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources to your permitting authority according to the requirements in paragraphs (a)(1) through (4) of this section.

(1) The first quarterly compliance report for battery stacks must cover the period beginning on the compliance date that is specified for your affected source in §63.7283 and ending on the last date of the third calendar month. Each subsequent compliance report must cover the next calendar quarter.

(2) The first semiannual compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7283 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your affected source. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(3) All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(4) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through

(3) of this section.

(b) *Quarterly compliance report contents.* Each quarterly report must provide information on compliance with the emission limitations for battery stacks in §63.7296. The reports must include the information in paragraphs (c)(1) through (3), and as applicable, paragraphs (c)(4) through (8) of this section.

(c) *Semiannual compliance report contents.* Each compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in paragraphs (c)(1) through (3) of this section, and as applicable, paragraphs (c)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §63.7333(e) for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period. If there were no deviations from the continuous compliance requirements in §§63.7333 through 63.7335 that apply to you (for all affected sources other than battery stacks), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in this subpart (including quench water limits) and for each deviation from the requirements for work practice standards in this subpart that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in paragraphs (c)(4) and (7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (c)(4) and (8)(i) through (xii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a

period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) An identification of each HAP that was monitored at the affected source.

(ix) A brief description of the process units.

(x) A brief description of the continuous monitoring system.

(xi) The date of the latest continuous monitoring system certification or audit.

(xii) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(d) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(e) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 40 CFR part 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to your permitting authority.

§63.7342 What records must I keep?

(a) You must keep the records specified in paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS or CEMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7333 through 63.7335 to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.

§63.7343 In what form and how long must I keep my records?

(a) You must keep your records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§63.7350 What parts of the General Provisions apply to me?

Table 1 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7351 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities in paragraphs (c)(1) through (6) of this section will not be delegated to State, local, or tribal agencies.

(1) Approval of alternatives to work practice standards for fugitive pushing emissions in §63.7291(a) for a by-product coke oven battery with vertical flues, soaking for a by-product coke oven battery in §63.7294(a), and quenching for a coke oven battery in §63.7295(b) under §63.6(g).

(2) Approval of alternative opacity emission limitations for a by-product coke oven battery under §63.6(h)(9).

(3) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90, except for alternative procedures in §63.7334(a)(7).

(4) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7352 t definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA), in §63.2, and in this section as follows:

Acceptable makeup water means surface water from a river, lake, or stream; water meeting drinking water standards; storm water runoff and production area clean up water except for water from the by-product recovery plant area; process wastewater treated to meet effluent limitations guidelines in 40 CFR part 420; water from any of these sources that has been used only for non-contact cooling or in water seals; or water from scrubbers used to control pushing emissions.

Backup quench station means a quenching device that is used for less than 5 percent of the quenches from any single coke oven battery in the 12-month period from July 1 to June 30.

Baffles means an apparatus comprised of obstructions for checking or deflecting the flow of gases. Baffles are installed in a quench tower to remove droplets of water and particles from the rising vapors by providing a point of impact. Baffles may be installed either inside or on top of quench towers and are typically constructed of treated wood, steel, or plastic.

Battery stack means the stack that is the point of discharge to the atmosphere of the combustion gases from a battery's underfiring system.

Batterywide extended coking means increasing the average coking time for all ovens in the coke oven battery by 25 percent or more over the manufacturer's specified design rate.

By-product coke oven battery means a group of ovens connected by common walls, where coal undergoes destructive distillation under positive pressure to produce coke and coke oven gas from which by-products are recovered.

By-product recovery plant area means that area of the coke plant where process units subject to subpart L in part 61 are located.

Coke oven battery means a group of ovens connected by common walls, where coal undergoes destructive distillation to produce coke. A coke oven battery includes by-product and non-recovery processes.

Coke plant means a facility that produces coke from coal in either a by-product coke oven battery or a non-recovery coke oven battery.

Cokeside shed means a structure used to capture pushing emissions that encloses the cokeside of the battery and ventilates the emissions to a control device.

Coking time means the time interval that starts when an oven is charged with coal and ends when the oven is pushed.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limitation (including operating limits) or work practice standard;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Emission limitation means any emission limit, opacity limit, or operating limit.

Four consecutive pushes means four pushes observed successively.

Fugitive pushing emissions means emissions from pushing that are not collected by a capture system.

Horizontal flue means a type of coke oven heating system used on Semet-Solvay batteries where the heating flues run horizontally from one end of the oven to the other end, and the flues are not shared with adjacent ovens.

Hot water scrubber means a mobile scrubber used to control pushing emissions through the creation of an induced draft formed by the expansion of pressurized hot water through a nozzle.

Increased coking time means increasing the charge-to-push time for an individual oven.

Non-recovery coke oven battery means a group of ovens connected by common walls and operated as a unit, where coal undergoes destructive distillation under negative pressure to produce coke, and which is designed for the combustion of the coke oven gas from which by-products are not recovered.

Oven means a chamber in the coke oven battery in which coal undergoes destructive distillation to produce coke.

Pushing means the process of removing the coke from the oven. Pushing begins with the first detectable movement of the coke mass and ends when the quench car enters the quench tower.

Quenching means the wet process of cooling (wet quenching) the hot incandescent coke by direct contact with water that begins when the quench car enters the quench tower and ends when the quench car exits the quench tower.

Quench tower means the structure in which hot incandescent coke in the quench car is deluged or quenched with water.

Remove from service means that an oven is not charged with coal and is not used for coking. When removed from service, the oven may remain at the operating temperature or it may be cooled down for repairs.

Responsible official means responsible official as defined in §63.2.

Short battery means a by-product coke oven battery with ovens less than five meters in height.

Soaking means that period in the coking cycle that starts when an oven is dampered off the collecting main and vented to the atmosphere through an open standpipe prior to pushing and ends when the coke begins to be pushed from the oven.

Soaking emissions means the discharge from an open standpipe during soaking of visible emissions due to either incomplete coking or leakage into the standpipe from the collecting main.

Standpipe means an apparatus on the oven that provides a passage for gases from an oven to the atmosphere when the oven is dampered off the collecting main and the standpipe cap is opened. This includes mini-standpipes that are not connected to the collecting main.

Tall battery means a by-product coke oven battery with ovens five meters or more in height.

Vertical flue means a type of coke oven heating system in which the heating flues run vertically from the bottom to the top of the oven, and flues are shared between adjacent ovens.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

Table 1 to Subpart CCCCC of Part 63—Applicability of General Provisions to Subpart CCCCC

As required in §63.7350, you must comply with each applicable requirement of the NESHAP General Provisions (40 CFR part 63, subpart A) as shown in the following table:

Citation	Subject	Applies to Subpart CCCCC?	Explanation
§ 63.1	Applicability	Yes	
§ 63.2	Definitions	Yes	
§ 63.3	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes	
§ 63.5	Construction/Reconstruction	Yes	
§ 63.6(a), (b), (c), (d), (e), (f), (g), (h)(2)-(8).	Compliance with Standards and Maintenance Requirements.	Yes	
§ 63.6(h)(9)	Adjustment to an Opacity Emission Standard.	Yes.	
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes..	
§ 63.7(a)(1)-(2).	Applicability and Performance Test Dates	No	Subpart CCCCC specifies applicability and dates.
§ 63.8(a)(1)-(3), (b), (c)(1)- (3), (c)(4)(i)-(ii), (c)(5)-(8), (d), (e), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in §63.8(c)(4) (i)-(ii), (c)(5), and (c)(6) apply only to COMS for battery stacks.
§ 63.8(a)(4)	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Flares are not a control device for Subpart CCCCC affected sources.
§ 63.8(c)(4)	Continuous Monitoring System (CMS) Requirements.	No	Subpart CCCCC specifies requirements for operation of CMS.
§ 63.8(e)(4)-(5)	Performance Evaluations	Yes.	Except COMS performance evaluation must be conducted before the compliance date.
§ 63.8(f)(6).	RATA Alternative	NO	Subpart CCCCC does not require CEMS.
§ 63.8(g)(5)	Data Reduction	NO	Subpart CCCCC specifies data that can't be used in computing averages for COMS.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply only to COMS for battery stacks.
§ 63.10(a), (b)(1)-(b)(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6), (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements	Yes.	Additional records for CMS in §63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for battery stacks.

§ 63.10(b)(2)(xi)-(xii)	CMS Records for RATA Alternative	No	Subpart CCCCC doesn't require CEMS.
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS.	No.	Subpart CCCCC specifies record requirements.
§ 63.10(e)(3).	Excess Emission Reports	No	Subpart CCCCC specifies reporting requirements.
§ 63.11	Control Device Requirements.	No	Subpart CCCCC does not require flares.
§ 63.12	State Authority and Delegations	Yes	
§§ 63.13-63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

SECTION D.3 **FACILITY OPERATION CONDITIONS**

Facility Description [326 IAC 2-7-5(15)]: One (1) Coke Plant By-Product Recovery Plant

(a) Control Station No. 1

(1) Four (4) Predecanters D-101A, D-101B, D-101C and D-101D, identified as CBP10100, CBP20101, CBP30102 and CBP30103, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72- inch Suction Main.

(2) Two (2) Still Decanters D-102B and D-102A, identified as CBD00104 and CBD00105, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-5 and D-4, identified as CBD20107 and CBD30108, constructed in 1975, with vapors directed by a natural gas blanket system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(4) One (1) Bleed-Off Tank B101, identified as CBB10106, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(5) One (1) Liquor Storage Tank T-7, identified as CBL10109, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(6) Two (2) Tar Storage Tanks T-2 and T-3, identified as CBT00110 and CBT00111, constructed in 1968, with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(7) One (1) Storage Tank T-6, identified as CBT20112, constructed in 1968, with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(8) Two (2) PC Tar Storage Tanks T-363D and T-363A, identified as CBT30113 and CB40114, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(9) One (1) Dry Tar Storage Tank T-9, identified as CBT50115, constructed in 1975, with vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(10) One (1) Sump S-9 serving Dry Tar Storage Tank ST-9, identified as CBS10116, constructed in 1991, with vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: One (1) Coke By-Product Recovery Plant (continued)

(b) Control Station No. 2

(1) Three (3) Tar Tanks T-304C, T-304B and T-304A , identified as CBT60118, CBT70119, and CBT80121, constructed in 1990, 1953 and 1953, respectively, with vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(2) One (1) Tar Feed Tank T-306C, identified as CBTF0164, constructed in 1953, with vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(3) One (1) Wash Oil Tank T-331AN, identified as CBO10123, constructed in 1961, with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 into the 72-inch Suction Main.

(4) Two (2) Light Oil Storage Tanks T-312 and T-311, identified as CBO20124 and CBO30125, constructed in 1953, with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(5) One (1) sump S-304/306, constructed in 1996, with vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(c) Control Station No. 3

(1) Four (4) Predecanters D-105A, D-105B, D-105C and D-105D, identified as CBP70137, CBP80138, CBP50139 and CBP60140, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(2) Two (2) Still Decanters D-106A and D-106B, identified as CBD60134 and CBD70136, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-6 and D-7, identified as CBD40132 and CBD50133, constructed in 1976, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(4) Two (2) Tar Decanters D-5/7N and D-5/7S, identified as CBD80141 and CBD90142, constructed in 1953, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(5) One (1) Bleed-Off Tank B-104, identified as CBB20135, constructed in 1976 with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(6) One (1) Liquor Surge Tank T-11, identified as CBL60131, constructed in 1975, with vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: One (1) Coke Plant By-Product Recovery Plant (continued):

(d) Control Station No. 4

(1) Four (4) Circulating Liquor Decanters L-100B, L-100C, L-100D and L-100E, identified as CBC30127, CBC40128, CBC50129 and CBL80145, constructed in 1975, with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(2) Two (2) Liquor Surge Tanks T-340A and T-340B, identified as CBC20126 and CBL70143, constructed in 1995, with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(3) One (1) Primary Cooler Tank T-345A, identified as CBTF0130, constructed in 1995, with vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(e) Control Station No. 5

(1) One (1) Sump of Circulating Liquor Ls-100E, identified as CBS40144, constructed in 1991, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(2) Three (3) Tar Storage Tanks T-301,T-302A, T-302B, identified as CBTA0146, CBTB0147 and CBTC0148, constructed in 1948, 1930 and 1930, respectively, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(3) Two (2) Storage Tanks T-7100, T7110 and T-7120, constructed and refurbished in 1997, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(4) Two (2) Oil/Tar Separator Tanks, T-7000 and T-7010, constructed in 1997, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(5) Two (2) Oil and Tar Receiver Tanks, T-7020 and T-7030, constructed in 1997, with vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(f) One (1) Surge Tank T-7800, constructed in 1997, with vapors directed to a nitrogen gas blanketing system.

(g) Distillation Sump Emission Control

One (1) Distillation Sump Emission Control System, identified as CBS80151, constructed in 1989, with vapors directed to a nitrogen gas blanketing system.

(h) Coke Oven Gas (COG) High Pressure Control System, constructed in 1991, contains instrumentation and control valves designed to limit the maximum pressure in the COG distribution system. Excess COG pressure is directed to and combusted in a bleeder flare with emissions exhausting to Stack CG6077.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: One (1) Coke Plant By-Product Recovery Plant (continued):

(i) Equipment in Benzene Service consists of several hundred components: pumps, exhausters, valves, flanges and pressure relief devices in benzene service within the byproducts plant.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 General Provisions Relating to Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 14] [40 CFR Part 61 Subpart A]

The provisions of 40 CFR Part 61, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 14, apply to the process vessels, tar storage tank, light oil sump, naphthalene processing, final coolers and cooler towers and equipment in benzene service except when otherwise specified in 40 CFR Part 61, Subpart L, 40 CFR Part 61, Subpart V, and 40 CFR Part 61, Subpart FF.

D.3.2 National Emission Standard for Hazardous Air Pollutants (NESHAP)-Benzene Limitations from Coke Byproduct Recovery Plants [40 CFR 61 Subpart L] [326 IAC 14]

(a) Pursuant to 40 CFR 61.132, the Permittee shall:

(1) Enclose and seal all openings on each process vessel, tar storage tank, and tar-intercepting sump.

(2) Duct gases from each process vessel, tar storage tank, and tar-intercepting sump to the gas collection system, gas distribution system, or other enclosed point in the by-product recovery process where the benzene in the gas will be recovered or destroyed. This control system shall be designed and operated for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined by the methods specified in 40 CFR 61.245(c). This system can be designed as a closed, positive pressure, gas blanketing system.

(A) The Permittee may elect to install, operate, and maintain a pressure relief device, vacuum relief device, an access hatch, and a sampling port on each process vessel, tar storage tank, and tar-intercepting sump. Each access hatch and sampling port must be equipped with a gasket and a cover, seal, or lid that must be kept in a closed position at all times, unless in actual use.

(B) The Permittee may elect to leave open to the atmosphere the portion of the liquid surface in each tar decanter necessary to permit operation of a sludge conveyor. If the Permittee elects to maintain an opening on part of the liquid surface of the tar decanter, the Permittee shall install, operate, and maintain a water leg seal on the tar decanter roof near the sludge discharge chute to ensure enclosure of the major portion of liquid surface not necessary or the operation of the sludge conveyor.

(3) Monitor the connections and seals on each control system to determine if it is operating with no detectable emissions, using Method 21 (40 CFR part 60, appendix A) and procedures specified in 40 CFR 61.245(c), and shall visually inspect each source (including sealing materials) and the ductwork of the control system for evidence of visible defects such as gaps or tears. This monitoring and inspection shall be conducted on a semiannual basis and at any other time after

the control system is repressurized with blanketing gas following removal of the cover or opening of the access hatch.

(A) If an instrument reading indicates an organic chemical concentration more than 500 ppm above a background concentration, as measured by Method 21, a leak is detected.

(B) If visible defects such as gaps in sealing materials are observed during a visual inspection, a leak is detected.

(C) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected.

(D) A first attempt at repair of any leak or visible defect shall be made no later than 5 calendar days after each leak is detected.

(4) Conduct a maintenance inspection of the control system following the installation of control equipment used to meet the requirements of 40 CFR 61.132(a) on an annual basis for evidence of system abnormalities, such as blocked or plugged lines, sticking valves, plugged condensate traps, and other maintenance defects that could result in abnormal system operation. The Permittee shall make a first attempt at repair within 5 days, with repair within15 days of detection.

(5) Comply with the requirements of 40 CFR 61.132(a) through (c) for each benzene storage tank, BTX storage tank, light-oil storage tank, and excess ammonia liquor storage tank.

(b) Pursuant to 40 CFR 61.133 and 326 IAC 14-9, the Permittee of a light oil sump shall

(1) Enclose and seal the liquid surface in the sump to form a closed system to contain the emissions.

(2) The Permittee may elect to install, operate, and maintain a vent on the light-oil sump cover. Each vent pipe must be equipped with a water leg seal, a pressure relief device, or vacuum relief device.

(3) The Permittee may elect to install, operate, and maintain an access hatch on each light-oil sump cover. Each access hatch must be equipped with a gasket and a cover, seal or lid that must be kept in a closed position at all times, unless in actual use.

(4) Replace the light-oil sump cover when removed for periodic maintenance with a seal at completion of the maintenance operation.

(5) Not vent steam or other gases from the by-product process to the light-oil sump.

(6) Monitor semiannually the connections and seals on each control system following the installation of control equipment to meet the requirements of 40 CFR 61.132(a) to determine if it is operating with no detectable emissions, using 40 CFR Part 60, Appendix A, Method 21, and the procedures specified in 40 CFR Part 61, Subpart V, Section 61.245(c) and 326 IAC 14-8-3(b). The Permittee also shall conduct on a semiannual basis a visual inspection of each source including sealing materials for evidence of visible defects such as gaps or tears.

(A) If an instrument reading indicates an organic chemical concentration of more than 500 ppm above a background concentration, as measured by 40 CFR Part 60, Appendix A, Method 21, a leak is detected.

(B) If visible defects such as gaps in sealing materials are observed during visual inspection, a leak is detected.

(C) A first attempt at repair of any leak or visible defect shall be made no later than five (5) calendar days after each leak is detected.

(D) When a leak is detected, it shall be repaired as soon as practicable, but not later than fifteen (15) calendar days after it is detected.

(c) Pursuant to 40 CFR 61.134, the Permittee of naphthalene processing, final coolers, and final-cooler cooling towers shall allow “zero” emissions from these facilities.

(d) Pursuant to 40 CFR 61.135 and 326 IAC 14-9-5, each Permittee of equipment in benzene service shall comply with the requirements of 40 CFR 61, Subpart V and 326 IAC 14-9-5, except as provided in 40 CFR 61.135.

(1) The provisions of 40 CFR 61, Subpart V, Sections 61.242-3 and 61.242-9, do not apply to 40 CFR 61.135 and 326 IAC 14-9-5.

(2) Each piece of equipment in benzene service to which 40 CFR 61.135 and 326 IAC 14-9-5 apply, shall be marked in such a manner that it can be distinguished readily from other pieces of equipment in benzene service.

(3) Each exhauster shall be monitored quarterly to detect leaks by the methods specified in 40 CFR 61, Subpart V, Section 61.245(b) and 326 IAC 14-8-3(a), except as provided in subsections 40 CFR 61.136(d), 40 CFR 61.135 (e) - (g), 326 IAC 14-9-5 (e), (f) and (g) and in 326 IAC 14-9-6(c).

(A) If an instrument reading of ten thousand (10,000) ppm or greater is measured, a leak is detected.

(B) When a leak is detected, it shall be repaired as soon as practicable, but no later than fifteen (15) calendar days after it is detected, except as provided in 40 CFR 61, Subpart V, Section 61.242-10(a) and (b). A first attempt at repair shall be made no later than five (5) calendar days after each leak is detected.

(4) Each exhauster equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluids to the atmosphere is exempt from the requirements of subsection 40 CFR 61.135 (d) and 326 IAC 14-9-5 (d) provided the following requirements are met:

(A) Each exhauster seal system is:

(i) operated with the barrier fluid at a pressure that is greater than the exhauster stuffing box pressure; or

(ii) equipped with a barrier fluid system that is connected by a closed vent system to a control device that complies with the requirements of 40 CFR 61, Subpart V, Section 61.242-11; or

(iii) equipped with a system that purges the barrier fluid into a process stream with zero (0) benzene emissions to the atmosphere.

(B) The barrier fluid is not in benzene service.

(C) Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.

(D) Each sensor as described in 40 CFR 61.135(e)(3) shall be checked daily or shall be equipped with an audible alarm.

(E) The Permittee shall determine, based on design consideration and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

(F) If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 61.135(e)(4)(ii), a leak is detected.

(G) When a leak is detected, it shall be repaired as soon as practicable, but not later than fifteen (15) calendar days after it is detected, except as provided in 40 CFR 61, Subpart V, Section 61.242-10.

(H) A first attempt at repair shall be made no later than five (5) calendar days after each leak is detected.

(5) An exhauster is exempt from the requirements of subsection 40 CFR 61.135(d) if it is equipped with a closed vent system capable of capturing and transporting any leakage from the seals to a control device that complies with the requirements of 40 CFR 61, Subpart V, Section 61.242-11 except as provided in 40 CFR 61.135 (g).

(6) Any exhauster that is designated, as described in 40 CFR 61, Subpart V, Section 61.246(e) and in 326 IAC 14-8-4(d), (e), (f), and (g) for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of 40 CFR 61.135(d) if,

(A) The exhauster is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in 40 CFR 61, Subpart V, Section 61.245(c) and in 326 IAC 14-8-3(b); and

(B) The exhauster is tested for compliance with 40 CFR 61.135(g)(1) initially upon designation, annually, and at other times requested by the commissioner.

(7) Any exhauster that is in vacuum service is excluded from the requirements of 40 CFR 61, Subpart L and 326 IAC 14-9-5, if it is identified as required in 40 CFR 61, Subpart V, Section 61.246(e)(5) and 326 IAC 14-8-4(d).

D.3.3 National Emission Standard for Hazardous Air Pollutants (NESHAP) - Coke Byproduct Recovery Plants Equipment Leaks [326 IAC 14] [40 CFR 61 Subpart V]

Pursuant to 40 CFR 61 Subpart V, and 326 IAC 14, the Permittee shall control the HAPs emitted from equipment leaks in accordance with 40 CFR 61, Subpart V - National Emission Standard for Equipment Leaks (Fugitive Emission Sources), Sections 61.242-1 through 61.242-11, where applicable. The provisions apply to equipment in benzene service at the coke byproducts plant.

(a) Pursuant to 40 CFR 61.242-1(d), each piece of equipment to subject to the requirements of 40 CFR 61 Subpart V shall be marked in such a manner that it can be distinguished readily from other pieces of equipment.

(b) Pursuant to 40 CFR 242-1(e), equipment in vacuum service is excluded from the requirements of 40 CFR 61.242-2 through 61.242-11, if it is identified as required in 40 CFR 61.246(e)(5).

(c) Pursuant to 40 CFR 61.242-4 (Standards: Pressure relief devices in gas/vapor service), the standards listed below apply to pressure relief devices in gas/vapor service:

(1) Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c).

(2) The following requirements apply regarding pressure releases:

(A) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10 and,

(B) No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the condition of no detectable emissions ads indicated by an instrument reading of less than 500 ppm above background as measured by the method in 40 CFR 91.245(c).

(3) Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in 40 CFR 61.242-11 is exempt from the requirements of 40 CFR 61.242-4 (a) and (b).

(4) The following applies regarding pressure release devices with rupture disks:

(A) Any pressure relief device that is equipped with a rupture disk upstream of a pressure relief device is exempted from the requirement of 40 CFR 61.242-4 (a) and (b) provided the Permittee complies with the requirements in 40 CFR 61.242-4(d)(2).

(B) A new rupture disk shall be installed upstream of the pressure relief device as soon as practicable , but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10.

(d) Pursuant to 40 CFR 61.242-5 (Standards: Sampling connecting systems), the standards listed below apply to sampling connecting systems:

(1) Each sampling connection system shall be equipped with a closed-purge system or closed vent system, except as provided in 40 CFR 242-1(c).

(2) Each closed-purge system or closed-vent system as required in paragraph D.3.3(c)(1) shall do the following:

(A) Return the purged process fluid to the process line, or

(B) Collect and recycle the purged process fluid or,

(C) Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements 40 CFR 61.242-11.

(3) In-situ sampling systems are exempt from the requirements of items (1) and (2) above.

(e) Pursuant to 40 CFR 61.242-6 (Standards: Open-ended valves or lines), the standards listed below apply to open-ended valves or lines:

(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in paragraph (d)(4) of this condition.

(2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

(3) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(4) When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (d)(1) of this condition at all other times.

(f) Pursuant to 40 CFR 61.242-9 (Standards: Surge control vessels and bottoms receivers), each surge control vessels and bottoms receiver that is not routed back to the process, located at existing sources with a capacity less than or equal to 75 cubic meters and less than 151 cubic meters and a vapor pressure greater than or equal to 13.1 KPa; or with a capacity less than or equal to 151 cubic meters and a vapor pressure greater than or equal to 5.2 KPa shall be equipped with a closed-vent system capable of capturing and transporting any leakage from the vessel back to the process or to a control device as described in 40 CFR 61.242-11.

(g) Pursuant to 40 CFR 61.242-11 (Standards: Closed-vent systems and control devices), the Permittee shall comply with the provisions of this paragraph the closed-vent systems and control devices.

(1) Vapor recovery systems shall be designed and operated to recover the organic vapors vented to them with an efficiency of 95 percent or greater or to an exit concentration of 20 parts per million by volume, whichever is less stringent.

(2) Closed-vent systems shall be designed for and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods specified in 40 CFR 61.245(c).

(3) The closed-vent system and control devices shall be operated at all times when emissions may be vented to them.

D.3.4 National Emission Standard for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations [40 CFR Part 61, Subpart FF] [326 IAC 14]

Pursuant to 40 CFR 61.342(a), the Permittee of a coke byproduct recovery plant at which the total annual benzene quantity from facility waste is less than 10 megagrams per year (Mg/yr) (11 ton/yr) shall be exempt from the requirements of 40 CFR 61.342(b) and (c).

(a) The total annual benzene quantity from facility waste is the sum of the annual benzene quantity for each waste stream at the facility that has a flow-weighted annual average water content greater than 10 percent or that is mixed with water, or other wastes, at any time and the mixture has an annual average water content greater than 10 percent.

(b) The benzene quantity in a waste stream is to be counted only once without multiple counting if other waste streams are mixed with or generated from the original waste stream.

(c) Wastes that are exempted from control under 40 CFR 61.342(c)(2) and 61.342(c)(3) are included in the calculation of the total annual benzene quantity if they have an annual average water content greater than 10 percent, or if they are mixed with water or other wastes at any time and the mixture has an annual average water content greater than 10 percent.

(d) The benzene in a material subject to this subpart that is sold is included in the calculation of the total annual benzene quantity if the material has an annual average water content greater than 10 percent.

(e) Benzene in wastes generated by remediation activities conducted at the facility, such as the excavation of contaminated soil, pumping and treatment of groundwater and the recovery of product from soil or groundwater, are not included in the calculation of total annual benzene quantity for that facility.

(f) The total annual benzene quantity is determined based upon the quantity of benzene in the waste before any waste treatment occurs to remove the benzene except as specified in 40 CFR 61.355(c)(1)(i) (A) through (C).

D.3.5 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the Permittee shall not allow or permit discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf) from the Coke Oven Gas High Pressure Control System Stack CG6077.

D.3.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventative Maintenance Plan of this permit is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.3.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant: Benzene Compliance Requirements [40 CFR 61, Subpart L][326 IAC 14]

(a) Pursuant to 40 CFR 61.136(b), the Permittee shall determine compliance with 40 CFR 61.132 through 61.135 by reviewing records, performance test results, inspections or any combination thereof, using the methods and procedures specified in 40 CFR 61.137.

(b) Pursuant to 40 CFR 61.137(a), the Permittee subject to the provisions of 40 CFR 61 Subpart L shall comply with the requirements in 40 CFR 61.245 of 40 CFR 61, Subpart V.

(c) Pursuant to 40 CFR 61.137(b), to determine whether or not a piece of equipment is in benzene service, the methods in 40 CFR 61.245(d) shall be used, except that, for exhausters , the percent benzene shall be 1 percent by weight rather than the ten percent by weight described in 40 CFR 61.245(d).

D.3.8 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant: Monitoring Procedures for Equipment Leaks [40 CFR 61, Subpart V] [326 IAC 14]

Pursuant to 40 CFR 61, Subpart V, the Permittee must conduct monitoring in accordance with the paragraphs listed below to comply with leak detection requirements:

(a) Pursuant to 40 CFR 61.242-2, the following standards apply to pumps:

(1) Each pump shall be monitored monthly to detect leaks by the methods specified in 40 CFR 61.245(b), except as provided in 40 CFR 242-2(d)–(f).

(2) Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

(3) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(4) If there are indications of liquids dripping from the pump seal, a leak is detected.

(5) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after each leak is detected, except as provided in 40 CFR 61.242-10 and paragraph (e) of this condition.

(6) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(7) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of item (2) of this condition and 40 CFR 61.242-2(d), provided that each pump is visually inspected as often as practical and at least monthly.

(b) Pursuant to 40 CFR 61.242-4(b)(2), no later than 5 calendar days after a pressure release, the pressure relief device in gas/vapor service shall be monitored to confirm the condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c).

(c) Pursuant to 40 CFR 61.242-7, the standards listed below apply to valves:

(1) Each valve shall be monitored monthly to detect leaks by the method specified in 40 CFR 61.245(b), except as provided in 40 CFR 61.242-7(f), (g) and (h), 40 CFR 61.243-1 or 40 CFR 61.243-2 and 40 CFR 242-1(c).

(2) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(3) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.

(4) If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.

(5) When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10 and paragraph (e) of this condition.

(6) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(7) First attempts at repair include, but are not limited to, the following best practices where practicable:

(A) Tightening of bonnet bolts;

(B) Replacement of bonnet bolts;

(C) Tightening of packing gland nuts; and,

(D) Injection of lubricant into lubricated packing.

(8) Any valve that is designated, as described in 40 CFR 61.246(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of 40 CFR 61.242-7(a) if the valve:

(A) Has no external actuating mechanism in contact with the process fluid;

(B) Is operated with emissions less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c), and

(C) Is tested for compliance with item (8)(B) of this condition initially upon designation, annually, and at other times requested by the IDEM.

(9) Any valve that is designated, as described in 40 CFR 61.246(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of 40 CFR 61.242-7(a) if:

(A) The Permittee of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to am immediate danger as a consequence of complying with 40 CFR 61.242-7(a) and

(B) The Permittee of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.

(10) Any valve that designated as described in 40 CFR 61.246(f)(2), as a difficult-to-monitor valve is exempt from the requirements of 40 CFR 61.242-7(a) if:

(A) The Permittee of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface,

(B) The process unit within which the valve is located is an existing process unit and,

(C) The Permittee of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

(d) Pursuant to 40 CFR 61.242-8, pressure relief devices in liquid service and flanges and other connectors shall be monitored within 5 days by the method specified in 40 CFR 61.245(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

(1) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(2) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 61.242-10 and paragraph (e) of this condition.

(3) The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(4) First attempts at repair include, but are not limited to, the best practices described under 40 CFR 61.242-7(e).

(e) Pursuant to 40 CFR 61.242-10 (Standards: Delay of Repair), the standards listed below apply to delay of repair of equipment:

(1) Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

(2) Delay of repair of equipment for which leaks have been detected will be allowed for equipment that is isolated from the process that does not remain in benzene service.

(3) Delay of repair for valves will be allowed if:

(A) The Permittee demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair; and,

(B) When repair procedures are affected, the purged material is collected and destroyed or recovered in the control device complying with 40 CFR 61.242-11.

(4) Delay of repair for pumps will be allowed if:

(A) Repair requires the use of a dual mechanical seal system that includes a barrier fluid system; and

(B) Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

(5) Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

(f) Pursuant to 40 CFR 61.242-11(e), the Permittee shall monitor control devices to ensure they are operated and maintained in conformance with its design.

(g) Pursuant to 40 CFR 61.242-11(f), the monitoring requirements listed below apply to closed-vent systems.

(1) Closed-vent systems shall be monitored to determine compliance with 40 CFR 61.242-11 initially in accordance with 40 CFR 61.05, annually, and at other times requested by the US EPA or IDEM, OAQ.

(2) Leaks, as indicated by an instrument reading greater than 500 ppm and visual inspections, shall be repaired as soon as practicable, but not later than 15 calendar days after the leak is detected.

(3) A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.

D.3.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant Leak Detection Testing Requirements [40 CFR 61, Subpart V] [326 IAC 14]

(a) Monitoring required under 40 CFR 61, Subpart V and 40 CFR 61.135 of Subpart L shall comply with the following requirements in accordance with 40 CFR 61.245:

(1) Monitoring shall comply with reference Method 21 of Appendix A of 40 CFR Part 60 procedures and performance criteria.

(A) The detection instrumentation shall meet the Performance criteria of Method 21.

(B) Instrument shall be calibrated before use on each day of its use;

(C) Calibration gases shall be;

(i) Zero air (less than 10 ppm of hydrocarbon in air); and

(ii) A mixture of methane or n–hexane and air at a concentration of approximately, but less than 10,000 ppm methane or n-hexane.

(D) The instrument probe shall be traversed around all potential leak interfacings.

(E) When equipment is tested for compliance with or monitored for no detectable emissions, the background level shall be determined in accordance with Method 21. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

(2) Each piece of equipment within a process unit that can conceivably contain equipment in VHAP service is presumed to be in VHAP service unless the Permittee demonstrates that the piece of equipment is not in VHAP service in accordance with 40 CFR 61.245(d)(1) or (2). For a piece of equipment to be considered not in VHAP service, it must be determined that the percent VHAP content can be reasonable expected never to exceed 10 percent by weight.

(3) Samples used to determine the percent VHAP content shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

(b) Pursuant to 40 CFR 61.242-1(b), compliance with 40 CFR 61, Subpart V, will be determined by a review of records, review of performance test results, and inspection using the methods and procedures specified in 40 CFR 61.245.

D.3.10 National Emission Standards for Hazardous Air Pollutants (NESHAP)- Benzene Waste Operations Methods, Procedures and Compliance [40 CFR 61, Subpart FF] [326 IAC 14]

Pursuant to 40 CFR 61.355, the Permittee shall determine the total annual benzene quantity from facility waste by the following procedure:

(a) For each waste stream subject to 40 CFR 61, Subpart FF with a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in 40 CFR 61.342(a), the Permittee shall:

(1) Determine the annual waste quantity for each waste stream using the procedures specified in 40 CFR 61.355.

(2) Determine the flow-weighted annual average benzene concentration for each waste stream using the procedures specified in 40 CFR 61.355.

(3) Calculate the annual benzene quantity for each waste stream by multiplying the annual waste quantity of the waste stream times the flow-weighted annual average benzene concentration.

(b) Total annual benzene quantity from facility waste is calculated by adding together the annual benzene quantity for each waste stream generated during the year and the annual benzene quantity for each process unit turnaround waste annualized according to 40 CFR 61.355.

(c) If the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr (11 ton/yr), then the Permittee shall comply with the requirements of 40 CFR 61.342 (c), (d), or (e).

(d) If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the Permittee shall:

(1) Comply with the record keeping requirements of 40 CFR 61.356 and reporting requirements of 40 CFR 61.357 of this subpart; and

(2) Repeat the determination of total annual benzene quantity from facility waste at least once per year and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more.

(e) If the total annual benzene quantity from facility waste is less than 1 Mg/yr (1.1 ton/yr) the Permittee shall:

(1) Comply with the record keeping requirements of 40 CFR 61.356 and reporting requirements of 40 CFR 61.357 of this subpart, and

(2) Repeat the determination of total annual benzene quantity from facility waste whenever there is a change in the process generating the waste that could cause the total annual benzene quantity facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more.

(f) The determination of annual waste quantity for wastes at coke by-product plants subject to and complying with the control requirements of 40 CFR 61.132, 61.133, 61.134, or 61.139 of Subpart L shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions are met:

(1) The transfer of wastes between units complying with the control requirements of 40 CFR 61 Subpart L, process units, and the ammonia still is made through hard piping or other enclosed system.

(2) The ammonia still meets the definition of a sour water stripper in 40 CFR 61.341.

(g) Pursuant to 40 CFR 61.355(b), the calculation required to determine the total annual benzene quantity at the point of waste generation shall be determined by one of the following methods

(1) Select the highest annual quantity of waste managed from historical records representing the most recent 5 years of operation or, if the facility has been in

service for less than 5 years but at least 1 year, from historical records representing the total operating life of the facility;

(2) Use the maximum design capacity of the waste management unit; or

(3) Use measurements that are representative of maximum waste generation rates.

(h) Pursuant to 40 CFR 61.342(g), compliance with 40 CFR 61, Subpart FF will be determined by review of facility records and results from tests and inspections using methods and procedures specified in 40 CFR 61.355.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19][40 CFR 61]

D.3.11 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant –Benzene Record Keeping Requirements [40 CFR 61 Subpart L] [326 IAC 14]

Pursuant to 40 CFR 61.138, the Permittee shall comply with the following record keeping requirements:

(a) The following information pertaining to the design of control equipment installed to comply with 40 CFR 61.132 through 61.134 shall be recorded and kept in a readily accessible location:

(1) Detailed schematics, design specifications, and piping and instrumentation diagrams.

(2) The dates and descriptions of any changes in the design specifications.

(b) The following information pertaining to sources subject to 40 CFR 61.132 and sources subject to 40 CFR 61.133 shall be recorded and maintained for 2 years following each semiannual (and other) inspection and each annual maintenance inspection:

(1) The date of the inspection and the name of the inspector.

(2) A brief description of each visible defect in the source or control equipment and the method and date of repair of the defect.

(3) The presence of a leak, as measured using the method described in 40 CFR 61.245(c). The record shall include the date of attempted and actual repair and method of repair of leak.

(4) A brief description of any system abnormalities found during the annual maintenance inspection, the repairs made and the date of attempted repair, and the date of actual repair.

D.3.12 National Emission Standards for Hazardous Air Pollutants (NESHAP)- Coke Byproduct Recovery Plant Record Keeping Requirements for- Equipment Leaks [40 CFR 61, Subpart V] [326 IAC 14]

Pursuant to 40 CFR 61.246, the Permittee shall comply with the following record keeping requirements:

(a) The Permittee may comply with the record keeping requirements for the process units in one record keeping system if the system identifies each record by each process unit.

(b) When each leak is detected as specified in 40 CFR 61.242-2, 242-7, 242-8 and 61.135 the following requirements apply:

(1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

(2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 61.242-7(c) and no leak has been detected during those 2 months.

(3) The identification on equipment, except on a valve, may be removed after it has been repaired.

(c) When each leak is detected as specified in 40 CFR 61, Sections 242-2, 242-7, and 242-8 the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:

(1) The instrument and operator identification numbers and the equipment identification number;

(2) The date the leak was detected and the dates of each attempt to repair the leak;

(3) Repair methods applied in each attempt to repair the leak;

(4) “Above 10,000" if the maximum instrument reading measured by the methods specified in 40 CFR 61.245(a) after each repair attempt is equal to or greater than 10,000 ppm.

(5) “Repair delayed” and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak;

(6) The signature of the Permittee (or designate) whose decision it was that the repair could not be effected without a process shutdown;

(7) The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days;

(8) Dates of process unit shutdowns that occur while the equipment is unrepaired; and,

(9) The date of successful repair of the leak.

(d) The following information pertaining to the design requirements for the closed-vent system and control devices shall be recorded and kept in a readily accessible location:

(1) Detailed schematics, design specifications, and piping and instrumentation diagrams;

(2) The dates and descriptions of any changes in the design specifications;

(3) A description of the parameter or parameters monitored, as required in 40 CFR 61.242-11(e), to ensure that the control devices are operated and maintained in conformance with its design and an explanation of why that parameter (or parameters) was selected for the monitoring;

(4) Periods when the closed-vent system and control devices are not operated as designed; and,

(5) Dates of startups and shutdowns of the closed-vent system and control devices.

(e) The following information pertaining to all equipment to which a standard applies shall be recorded in a log that is kept in a readily accessible location:

(1) A list of identification numbers for equipment (except welded fittings) subject to the requirements of 40 CFR 61, Subpart V;

(2) A list of identification numbers for equipment that the Permittee elects to designate for no detectable emissions as indicated by an instrument reading of less than 500 ppm above background. The designation of this equipment for no detectable emissions shall be signed by the Permittee;

(3) A list of equipment identification numbers for pressure relief devices required to comply with 40 CFR 61.242-4(a); and,

(4) The following information for each compliance test required in 40 CFR 61.242-4:

(A) The dates of each compliance test.

(B) The background level measured during each compliance test; and,

(C) The maximum instrument reading measured at the equipment during each compliance test.

(f) The following information pertaining to valves that are designated as unsafe to monitor or difficult to monitor shall be recorded in a log that is kept in a readily accessible location:

(1) A list of the identification numbers for the valves.

(2) An explanation for each valve, stating why the valve is unsafe or difficult to monitor.

(3) The plan for monitoring each valve that is unsafe to monitor.

(4) The planned schedule for monitoring each valve that is difficult to monitor.

(g) Information and data used to demonstrate that a piece of equipment is not in VHAP service shall be recorded in a log that is kept in a readily accessible location

D.3.13 National Emission Standards for Hazardous Air Pollutants (NESHAP) -Benzene Waste Operations -Record Keeping Requirements [40 CFR 61, Subpart FF] [326 IAC 14]

(a) Pursuant to 40 CFR 61.356(b), the Permittee shall maintain records that identify each waste stream at the facility subject to 40 CFR 61, Subpart FF, and indicate whether or not the waste stream is controlled for benzene emissions in accordance with 40 CFR 61, Subpart FF.

(b) Pursuant to 40 CFR 61.356(b)(1), for each waste stream not controlled for benzene emissions in accordance with 40 CFR 61, Subpart FF, the Permittee shall keep records that include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity.

(c) Pursuant to 40 CFR 61.356(a), the Permittee shall maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded, unless otherwise specified. Records shall also be kept in accordance with Section C- General Record Keeping Requirements.

D.3.14 National Emission Standards for Hazardous Air Pollutants (NESHAP) -Coke Byproduct Recovery Plant - Benzene Reporting Requirements [40 CFR 61 Subpart L][326 IAC 14]

Pursuant to 40 CFR 61.138, the Permittee shall comply with the following reporting requirements:

(a) A report shall be submitted to IDEM, OAQ semiannually starting 6 months after the initial reports required in 40 CFR 61.138(e) and 40 CFR 61.10, which includes the following information:

(1) For sources subject to 40 CFR 61.132 and sources subject to 40 CFR 61.133,

(A) A brief description of any visible defect in the source or ductwork,

(B) The number of leaks detected and repaired, and

(C) A brief description of any system abnormalities found during each annual maintenance inspection that occurred in the reporting period and the repairs made.

(2) For equipment in benzene service subject to 40 CFR 61.135(a), information required by 40 CFR 61.247(b).

(3) For each exhauster subject to 40 CFR 61.135 for each quarter during the semiannual reporting period,

(A) The number of exhausters for which leaks were detected as described in 40 CFR 61.135 (d) and (e)(5),

(B) The number of exhausters for which leaks were repaired as required in 40 CFR 61.135 (d) and (e)(6),

(C) The results of performance tests to determine compliance with 40 CFR 61.135(g) conducted within the semiannual reporting period.

(4) A statement signed by the Permittee stating whether all provisions of 40 CFR Part 61, subpart L, have been fulfilled during the semiannual reporting period.

(5) Revisions to items reported according to 40 CFR 61.139(e), if changes have occurred since the initial report or subsequent revisions to the initial report.

NOTE: Compliance with the requirements of 40 CFR 61.10(c) is not required for revisions documented under this paragraph.

(b) In the first report submitted as required in 40 CFR 61.138(e), the report shall include a reporting schedule stating the months that semiannual reports shall be submitted. Subsequent reports shall be submitted according to that schedule unless a revised schedule has been submitted in a previous semiannual report.

(c) A Permittee electing to comply with the provisions of 40 CFR 61.243–1 and 61.243–2 shall notify IDEM, OAQ of the alternative standard selected 90 days before implementing either of the provisions.

(d) An application for approval of construction or modification, as required under 40 CFR 61.05(a) and 61.07, will not be required for sources subject to 40 CFR 61.135 if:

(1) The new source complies with 40 CFR 61.135, and

(2) In the next semiannual report required by 40 CFR 61.138(f), the information described in 40 CFR 61.138(e)(4) is reported.

D.3.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) Coke Byproduct Recovery Plant - Equipment Leaks Reporting Requirements [40 CFR 61, Subpart V] [326 IAC 14]

Pursuant to 40 CFR 61.247, the Permittee shall comply with the reporting requirements of this paragraph. A report shall be submitted to the US EPA and IDEM, OAQ semi-annually that includes the following information:

(a) Process unit identification;

(b) For each month during the semi-annual reporting period:

(1) Number of valves for which leaks were detected as described in 40 CFR 61.242-7(b) and condition D.3.8(c)(2);

(2) Number of valves for which leaks were not repaired as required in 40 CFR 61.242-7(d) and condition D.3.8(c)(5);

(3) Number of pumps for which leaks were detected as described in 40 CFR 61.242-2(b) and (d)(6) and condition D.3.8(a)(3) and (4);

(4) Number of pumps for which leaks were not repaired as required in 40 CFR 61.242-2(c) and (d)(6) and condition D.3.8(a)(5) and (6);

(5) The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible;

(6) Dates of process unit shutdowns which occurred within the semi-annual reporting period; and

(7) Revisions to items reported according to the initial report required by 40 CFR 61.247(a)(1) if changes have occurred since the initial report or subsequent revisions to the initial report.

NOTE: Compliance with the requirements of 40 CFR 61.10 is not required for revisions documented under this condition.

(8) The results of all performance tests and monitoring to determine compliance with no detectable emissions conducted within the semi-annual reporting period.

D.3.16 National Emission Standards for Hazardous Air Pollutants (NESHAP) Benzene Waste Operations Reporting Requirements [40 CFR 61, Subpart FF] [326 IAC 14]

(a) Pursuant to 40 CFR 61.357(c), the Permittee shall submit to the US EPA and IDEM, OAQ, the following information if the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 tons/yr), but is equal to or greater than 1 Mg/yr (1.1 tons/yr):

(1) A report annually containing information to update the report originally submitted pursuant to 40 CFR 61.357 (a)(1) through (a)(3), and

(2) A report whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr or more.

(3) If the information in the annual report has not changed from the following year as specified in 40 CFR 61.357(c) a statement to that effect.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) coke oven gas (COG) desulfurization facility

(a) One (1) amine unit, constructed in 1997, removes hydrogen sulfide and other organic sulfur compounds from the coke oven gas (COG) stream.

(b) One (1) reflux unit, constructed in 1997, recycles ammonia and acid gas into the COG stream.

(c) One (1) hydrogen cyanide (HCN) destruction unit, constructed in 1997 converts HCN in the acid gas stream to ammonia to minimize corrosion to the Sulfur Recovery Unit.

(d) One (1) sulfur recovery unit, constructed in 1997, converts sulfur compounds in the acid gas stream to elemental sulfur. This sulfur is sold as a product.

(e) One (1) incineration unit, constructed in 1997, converts remaining sulfur compounds not removed by the sulfur recovery unit into sulfur dioxide.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

(a) Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the Coke Plant Desulfurization Facility Tail Gas Incinerator shall not exceed 0.13 pound per hour.

(b) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving."

D.4.2 Sulfur Dioxide (SO_2) Emissions Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20 the sulfur dioxide emissions from the desulfurization plant shall be as follows:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(H), when the coke oven gas desulfurization facility is not operating, sulfur dioxide from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 22.0 pounds per hour.

(b) Pursuant to 326 IAC 7-4.1-20(b)(8), when the coke oven gas desulfurization facility is operating sulfur dioxide emissions from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 295 pounds per hour.

(c) Pursuant to 326 IAC 7-4.1-20(c)(4), the Coke Oven Gas Desulfurization Plant's down time shall not exceed nine hundred and fifty (950) hours per year.

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and associated control devices.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.4 Record Keeping Requirements

(a) To document compliance with Condition D.4.2, the Permittee shall maintain records of the downtime hours of the Coke Oven Gas Desulfurization Plant.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.5 Reporting Requirements

A quarterly summery report to document compliance with Condition D.4.2 shall be submitted to IDEM accordance with Section C-Sulfur Dioxide SO_2 Reporting Requirements (Entire Source). The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) No. 2 Coke Plant Boiler House

(a) Two (2) Boilers, Nos. 1 and 2, identified as CSS10155 and CSS20156, constructed prior to 1970, with a maximum heat input capacity of 160 MMBtu per hour each, exhausting to stack CS6061. These boilers are equipped to combust natural gas.

(b) One (1) Boiler, No. 3, identified as CSS30157, constructed in 1943, with a maximum heat input capacity of 160 MMBtu per hour, exhausting to stack CS6062. This boiler is equipped to combust natural gas and coke oven gas.

(c) Two (2) Boilers, Nos. 4 and 5, identified as CSS40158 and CSS50159, constructed prior to 1955, with a maximum heat input of 170 MMBtu per hour each, exhausting to stack CS6063. These boilers are equipped to combust natural gas and coke oven gas.

(d) One (1) Boiler No. 6, identified as CSS60160, constructed in 1955, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6064. This boiler is equipped to combust natural gas and coke oven gas.

(e) One (1) Boiler, No. 7, identified as CS70161, constructed in 1976, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6065. This boiler is equipped to combust natural gas and coke oven gas.

(f) One (1) Boiler, No. 8, identified as CSS80162, constructed in 1981, with a maximum heat input capacity of 249 MMBtu per hour, exhausting to stack CS6066. This boiler is equipped to combust natural gas and coke oven gas.

(g) One (1) natural gas fired boiler at the coke plant boiler house, identified as the temporary rental boiler CSS80163, constructed in 2004 with a maximum heat input capacity of 235 MMBtu/hr and equipped with a low NOx burner, exhausting to the existing stack CS6066.

(h) Two (2) boilers at the coke plant boiler house, identified as Boilers No. 9 CSS80164 and No. 10 CSS 80165, constructed in 2004, each with a maximum heat input capacity of 235 MMBtu/hr, exhausting to stacks CS6067 and CS6068, respectively. These boilers are equipped to burn natural gas and coke oven gas.

(i) One (1) lime storage silo with a maximum capacity of 20 tons per hour and emissions controlled by a baghouse LRS-1, constructed in 2001, exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, Number 2 Coke Plant Boiler House new Boilers Nos. 9, 10 and temporary rental boiler as designated by 40 CFR 63.7506(a). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.

(b) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, Number 2 Coke Plant Boiler House existing Boilers Nos. 1 through 8 as designated by 40 CFR 63.7506(b). The Permittee must

comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.

D.5.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD) as of September 14, 2004. A copy of this rule is available on the US EPA Air Toxics Website at http://www.epa.gov/ttn/atw/eparules.html. Pursuant to 40 CFR 63.7495(a) and (b), the Permittee must comply with these requirements on November 12, 2004 or startup of new boilers and September 13, 2007 for existing boilers.

(b) The following new emissions units comprise the affected source identified as new large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers which is subject to 40 CFR 63, Subpart DDDDD:

(1)	Boiler No. 9	emissions from stack CS6067
(2)	Boiler No. 10	emissions from stack CS6068
(3)	Temporary Boiler	emissions from stack CS6066

(c) The following existing emissions units comprise the affected source identified as existing large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers which are subject to the initial notification of 40 CFR 63, Subpart DDDDD:

(1)	Boiler No. 1 and 2	emissions from stack CS6061
(2)	Boiler No. 3	emissions from stack CS6062
(3)	Boiler No. 4 and 5	emissions from stack CS6063
(4)	Boiler No. 6	emissions from stack CS6064
(5)	Boiler No. 7	emissions from stack CS6065
(6)	Boiler No. 8	emissions from stack CS6066

(d) Pursuant to 40 CFR 63, Subpart DDDDD, the temporary rental boiler, boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to 3 percent oxygen based on 30-day rolling average.

(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected sources.

(f) Pursuant to 40 CFR Part 63.7505(e), the Permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) for the temporary rental boiler, boiler No. 9, and boiler No. 10 according to the provisions of 40 CFR Part 63.6(e)(3).

(g) Pursuant to 40 CFR 63, Subpart DDDDD, the temporary rental boiler, boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to 3 percent oxygen based on 30-day rolling average.

(h) Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers Nos. 1-8 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

(i) Since the applicable requirements associated with the compliance options for the affected source are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition except as

otherwise provided in this condition. The permit shield applies to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements.

D.5.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 6.8-1-2(b)]

Pursuant to 326 IAC 6.8-2-38 the PM_{10} emissions from the Boilers Nos.1 and 2, CSS10155 and CSS20156, Boiler No. 3, CSS60157, Boiler No. 4, CSS40158, Boiler No. 5, CSS50159, Boiler No. 6, CSS60160, Boiler No. 7, CSS70161 and Boiler No. 8, CSS80162 shall comply with the following:

(a) The PM_{10} emissions from the Coke Plant Boiler House Boilers Nos.1 and 2 stacks CS6060 and CS6061 shall not exceed 0.003 pounds per MMBtu heat input each and a total of 0.75 pound per hour.

(b) The PM_{10} emissions from the Coke Plant Boiler House Boiler No. 3 stack CS6062 shall not exceed 0.012 pound per MMBtu of heat input and 1.8 pounds per hour.

(c) The PM_{10} emissions from the Coke Plant Boiler House Boilers No.4 and No.5 stack CS6063 shall not exceed 0.012 pound per MMBtu of heat input each and a total of 3.9 pounds per hour.

(d) The PM_{10} emissions from the Coke Plant Boiler House Boiler No.6 stack CS6064 shall not exceed 0.012 pound per MMBtu of heat input and 2.0 pounds per hour.

(e) The PM_{10} emissions from the Coke Plant Boiler House Boiler No. 7 Stack CS6065 shall not exceed 0.012 pound per MMBtu of heat input and 1.9 pounds per hour.

(f) The PM_{10} emissions from the Coke Plant Boiler House Boiler No. 8 Stack CS6066 shall not exceed 0.012 pound per MMBtu of heat input and 2.9 pounds per hour.

(g) The PM_{10} emissions from the Coke Plant Boiler House Lime Storage Silo Baghouse LRS-1 shall not exceed 0.030 grain per dry standard cubic foot and 0.28 pound per hour.

(h) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving".

(i) Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and 326 IAC 6.8-1-2(b) (Particulate Matter Limitations for Lake County), particulate matter (PM) from each of the boilers No. 9, No. 10 and the temporary rental boiler shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air.

D.5.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4-1-20, the SO_2 emissions from the Boilers: Boiler No. 1 CSS10155, Boiler No. 2 CSS20156, Boiler No. 3 Stack CS6062, Boiler No. 4 and 5 Stack CS6063, Boiler No. 6 Stack CS6064, Boiler No. 7 Stack CS6065 and Boiler No. 8 Stack CS6066 shall comply with the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(C), (a)(2)(B) and (a)(2)(C), when the coke oven gas desulfurization facility is not operating during the following periods,

Months	Boilers	Emission Limit (lbs/MMBtu)	Emission Limit (lbs/hr)
Jan - Dec	Boiler No. 8	1.27	316.2
Jan - Dec	Boiler No.9	1.27	298.45
Jan - Dec	Boiler No.10	1.27	298.45

Jan - Apr	Boiler Nos. 4 & 5.	0.444	150.0 total
May - Oct	Boiler Nos. 4 & 5.	0.385	130.0 total
Nov - Dec	Boiler Nos. 4 & 5.	0.000	0.0 total
Jan - Apr	Boiler No.6	1.27	214.6
May - Oct	Boiler No.6	1.27	214.6
Nov - Dec	Boiler No.6	1.18	200.0

(b) Pursuant to 326 IAC 7-4.1-20(b)(3), when the coke oven gas desulfurization facility is operating.

Boiler	Emission Limit Lbs/MMBtu	Emission Limit Lbs/hr
Boiler No. 3	0.260	40.6
Boilers Nos. 4 and 5	0.260	87.9 total
Boiler No. 6	0.260	44.0
Boiler No. 7	0.260	42.1
Boiler No. 8	0.260	64.7
Boiler No. 9	0.260	61.10
Boiler No. 10	0.260	61.10

D.5.5 Nonattainment NSR Minor Limits [326 IAC 2-1.1-5]

Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and in order to make the requirements of 326 IAC 2-1.1-5 Nonattainment NSR not applicable, the Permittee shall comply with the following:

(a) The NOx emissions from each boiler No. 1 through 8 shall not exceed 280 pounds per million cubic feet (MMCF) of natural gas . (This is the NOx emission factor in AP-42, Table 1.4-1 for uncontrolled boilers.)

(b) The NOx emissions from the temporary rental boiler shall not exceed 36.0 pounds per million cubic feet (MMCF) for natural gas,

(c) The NO_x emissions from each of the boilers No. 9 and No. 10 shall not exceed 129 pounds per million cubic feet (MMCF) of natural gas.

(d) The total NO_x emissions from boilers No. 1 through No. 10 and the temporary rental boiler at the coke plant boiler house (CPBH) shall be limited to less than 64.6 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly NO_x emissions shall be calculated using the following equation:

NO_x Emissions (tons/month) = (280 X + 36 Y + 129 Z) / 2,000

Where:

X = total monthly natural gas usage in boilers No. 1 through No. 8 (MMCF/month)
Y = monthly natural gas usage in the temporary rental boiler (MMCF/month)
Z = total monthly natural gas usage in boilers No. 9 and No. 10 (MMCF/month)

This limitation ensures the net NO_x emission increase from the modification to add Boilers No. 9 and No. 10 shall be less than 40 tons/yr and the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) are not applicable.

D.5.6 PSD Minor Limits [326 IAC 2-2]

Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and in order to make the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall limit the total natural gas usage from boilers No. 1 though No. 10 and the temporary rental boiler to less than 2,550 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.

This is equivalent to 9.69 tons/yr of PM10 emissions and 107 tons/yr of CO emissions from boilers No. 1 through No. 10 and the temporary rental boiler. The net emission increases from this modification are limited to less than 15 tons/yr for PM10 and less than 100 tons/yr for CO. Therefore, the requirements of 326 IAC 2-2 (PSD) is not applicable.

D.5.7 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to boilers No. 9, No. 10, and the temporary rental boiler at the coke plant boiler house, except when otherwise specified in 40 CFR Part 60, Subpart Db.

D.5.8 NOx Emissions [326 IAC 12-1][40 CFR 60, Subpart Db]

Pursuant to 40 CFR 60.44b(a), the NOx emissions from each of the boilers No. 9, No. 10, and the temporary rental boiler at the coke plant boiler house shall not exceed 0.2 lbs/MMBtu when combusting natural gas.

D.5.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the boilers and any associated control devices.

Compliance Determination Requirements

D.5.10 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [326 IAC 2-1.1-5] [40 CFR 60, Subpart Db] [40 CFR 63, Subpart DDDDD]

Pursuant to Significant Source Modification 089-19678-0012, issued October 29, 2004 and in order to demonstrate compliance with Conditions D.5.5, D.5.8(a), and D.5.2(d), the Permittee shall perform NOx and CO testing for boilers No. 9, No. 10, and the temporary rental boiler within 60 days after achieving the maximum production, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing. Pursuant to 40 CFR 60.46b(e), the performance test requirements may be satisfied by using 30-day average emission rate data from NOx CEMs.

D.5.11 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

To demonstrate compliance with condition D.5.4, the Permittee shall perform the Sulfur Sampling and Analysis in accordance with Section C - Sulfur Fuel Sampling and Analysis of this permit.

D.5.12 Particulate Matter Control

The lime storage silo baghouse shall be in operation and control particulate emissions at all times the silo is pneumatically loaded.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.13 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12] [40 CFR 60, Subpart Db] [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart DDDDD]

(a) In order to demonstrate compliance with condition D.5.8, the Permittee shall install, calibrate, maintain and operate a continuous monitoring system for Boilers No. 9 No. 10 and the temporary rental boiler for measuring NOx emissions discharged to the atmosphere. The continuous monitoring system shall meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 60.48b, and 40 CFR 60.13(h). 326 IAC 3-5 is not federally enforceable.

(b) In order to demonstrate compliance with Condition D.5.2(d) and pursuant to 40 CFR 63.7525(a), the Permittee shall install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide for the temporary rental boiler, boiler No. 9, and boiler No. 10. The continuous monitoring system shall meet the performance specification of 326 IAC 3-5-2 and 40 CFR 63.7525(a)(1) through (6). The requirements of 326 IAC 3-5 is not federally enforceable.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.14 Record Keeping Requirements

(a) To document compliance with Condition D.5.5(b), D.5.5(c) and D.5.8, the Permittee shall maintain records of the NOx emissions from boilers No. 9, No. 10, and the temporary rental boiler in accordance with 40 CFR 60.49b.

(b) To document compliance with Condition D.5.5(d), the Permittee shall maintain monthly records of the following:

(1) total natural gas usage for boilers No. 1 through No. 8;

(2) natural gas usage for the temporary rental boiler;

(3) total natural gas usage for boilers No. 9 and No. 10; and

(4) calculated NOx emissions using the equation listed in Condition D.5.5(d).

(c) To document compliance with Condition D.5.6, the Permittee shall maintain monthly records of the total natural gas usage for boilers No. 1 through No. 10 and the temporary rental boiler.

(d) To document compliance with Condition D.5.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(e) To document compliance with Conditions D.5.2(d), the Permittee shall maintain records of the CO CEM data for boilers No. 9, No. 10, and the temporary rental boiler in accordance with 40 CFR 63.7555(b).

(f) Pursuant to 40 CFR 63.7555(a)(1), the Permittee shall keep records of a copy of each notification and report to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report.

(g) Pursuant to 40 CFR 63.7555(a)(2), the Permittee shall keep records related to startup, shutdown and malfunction.

(h) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.5.15 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]

(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for the large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:

(1) Pursuant to 40 CFR 63.7545(c), the Permittee shall submit an Initial Notification no later than 120 days after the initial startup of the rental boiler, boiler No. 9 and boiler No. 10.

(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).

(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).

(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).

(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable

(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.

(b) The notifications required by paragraph (a) shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for the temporary rental boiler, boiler No. 9, and boiler No. 10.

D.5.16 Reporting Requirements

(a) A quarterly summary report to document compliance with condition D.5.4 shall be submitted to IDEM, in accordance with Section C – Sulfur Dioxide Reporting Requirements (Entire Source). The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(b) A quarterly summary of the information to document compliance with Conditions D.5.5(d) and D.5.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.5.17 Natural Gas Fired Boiler Certification

A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent for the Number 2 Coke Plant Boiler House Boilers Nos. 3, through 10 and the rental natural gas fired boilers. The report submitted by the

Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.5.18 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit to comply with 40 CFR 63, Subpart DDDDD.

(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart DDDDD a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.

(b) The significant permit modification application for Boilers No. 9 and 10 and the temporary boiler shall be submitted no later than November 12, 2004 or upon start up of the Boilers No. 9 and 10 and the temporary boiler.

(c) The significant permit modification application for Boilers 1 through 8 shall be submitted no later than September 13, 2007.

(d) The significant permit modification application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15): One (1) Number 3 Sinter Plant

(a) Three (3) Sinter Strands, constructed in 1958 , identified as ISS10379, ISS20380 and ISS30381, each with a 50 MMBtu per hour reheat burners identified as ISB001, ISB002 and ISB003 and a maximum capacity of 225 tons of sinter per hour each, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS.

(b) One (1) Cold Screen Station, identified as ISR00389, constructed in 1958, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.

(c) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers sinter from the sinter coolers to the cold screening station, using a baghouse IS3208 as a control device and exhausting to stack IS6206.

(d) Three (3) Sinter Coolers, identified as ISC10385, ISC20386, and ISC30387, constructed in 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203, IS6204, and IS6205 respectively.

(e) Three (3) Sinter Strand Discharge End Areas, identified as ISS10379, ISS20380 and ISS0381, constructed in 1958, using three (3) baghouses as control devices, designated as IS3205, IS3206, and IS3207, exhausting to stacks IS6200, IS6201, and IS6202 respectively.

(f) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, including bins, feeders and conveyors, with a maximum capacity of 1,000 tons per hour, using a Baghouse IS3196 as a control device and exhausting to stack IS6197.

(g) Storage and Blending Piles, identified as ISBP0376, with fugitive emissions.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 General Provisions Relating to-National Emission Standards for Hazardous Air Pollutants (HAPs): [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected sources, No. 3 Sinter Plant Windbox exhaust, discharge end and sinter coolers, except when otherwise specified by Table 4 in 40 CFR 63, Subpart FFFFF.

D.6.2 Particulate Emissions Offset [326 IAC 2-3]

Pursuant to the significant source modification 089-12880-00121, issued July 26, 2001, the natural gas usage shall be less than 95.5 million standard cubic feet (MMSCF) or the coke oven gas usage shall be less than 1,637.4 MMSCF in the No. 3 Sinter Plant Sinter Strand Windbox reheat burners ISB001, ISB002 and ISB003 per 12-consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-3 (Emissions Offset) not applicable.

D.6.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions from the No. 3 Sinter Plant shall comply with the following:

(a) The PM_{10} emissions from the No. 3 Sinter Plant Strand Windbox gas cleaning system stacks IS6198 and IS6199 emissions shall not exceed 0.020 grains per dry standard cubic foot and a total of 200.0 pounds per hour.

(b) The PM_{10} emissions from the No. 3 Sinter Plant Cold Screen Station Baghouse Stack IS6207 shall not exceed 0.0100 grains per dry standard cubic foot and 10.89 pounds per hour.

(c) The PM_{10} emissions from the No. 3 Sinter Plant S1/S2 Conveyor System Baghouse Stack IS6206 shall not exceed 0.0100 grains per dry standard cubic foot and 1.29 pounds per hour.

(d) The PM_{10} emissions from the No. 3 Sinter Plant Sinter Coolers Stacks IS6203, IS*6204* and IS6205 shall not exceed 0.0300 grains per dry standard cubic foot and a total of 272.57 pounds per hour.

(e) The PM_{10} emissions from the No. 3 Sinter Plant Discharge Ends Area Baghouse Stacks IS6200, IS6201 and IS6202 shall not exceed 0.0100 grain per dry standard cubic foot and total of 20.57 pounds per hour.

(f) The PM_{10} emissions from the No. 3 Sinter Plant Blended Material Storage Bins Building Baghouse Stack IS6197 shall not exceed 0.0100 grain per dry standard cubic foot and 0.43 pounds per hour.

(g) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.6.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20 the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(G), the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed a total of 260.0 pounds per hour when the coke oven gas desulfurization plant is not in operation.

(b) Pursuant to 326 IAC 7-4.1-20(b)(7), the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed a total of 200.0 pounds per hour when the coke oven gas desulfurization plant is in operation.

D.6.5 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-13-3]

Pursuant to 326 IAC 8-13-3(b) and (c), the No. 3 Sinter Plant windbox gas cleaning system stacks (IS6198 and IS6199) shall not exceed the VOC emission limits as follows:

(a) During the period May 1 through September 30, the total VOC emissions (the seasonal cap) shall not exceed 256,948 pounds of VOC emissions. This is based on the following equation:

VOC (pounds) = 0.25 lb of VOC per ton of sinter produced x average daily sinter production rate of 6717.59 tons per day x 153 days

(b) Except as provided in 326 IAC 8-13-3(b)(3), on any day from May 1 through September 30, the sinter plant windbox exhaust VOC emissions (the maximum daily limit) shall not exceed 2,096 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate 8384 tons per day

(c) On any day from May 1 through September 30 when ozone levels in Lake, Porter, or LaPorte Counties are expected to exceed the national ambient air quality standard for ozone (either one (1) hour or eight (8) hour), the sinter plant windbox exhaust VOC emissions (the lower daily limit) shall not exceed 1,679 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate of 6716 tons per day

A high ozone level day shall be predicted in accordance with item (g)(4) of this condition.

(d) The maximum actual daily sinter production (tons per day) is equal to the maximum actual sinter produced on an operating day during the period from 1990 to 1997.

(e) The average daily sinter production equals either of the following:

(1) The annual average sinter production in tons divided by the annual average number of operating days in the period 1990 through 1994.

(2) In the event sinter production in 1990 to 1994 is not representative of the current sinter production due to factors, such as, but not limited to, routine repair, maintenance, or replacement, a source may elect to use the average actual sinter production in tons per day during a calendar year up to the year 1997, which represents current sinter production. The averaging period must include and not be less than the ozone season (May 1 through September 30).

(f) From October 1 through April 30, sinter plant windbox exhaust gas VOC emissions shall be limited to thirty-six hundredths (0.36) pound per ton of sinter produced. The limit shall be complied with on an operating day average basis.

(g) Pursuant to 326 IAC 8-13-4(b)(8) and an Ozone Action Plan dated August 2, 1999, the Permittee shall do the following:

(1) Control the sinter burden oil and grease content by regulating the amount of mill scale in the sinter burden.

(2) Use a continuous emissions monitoring system to ensure compliance with the applicable limits.

(3) Implement the following sequence of events upon discovery and initial internal notification of an actual or projected VOC emission limit, exceedance.

(A) Verify the exceedance.

(B) Determine the exceedance status: ceased or on-going.

(C) Implement corrective measures if a verified on-going exceedance condition exists. The feed rate of mill scale to the sinter burden from the dedicated mill scale bin is reduced or terminated. Incremental reductions in the mill scale feed rate may be utilized.

(4) To predict high ozone days: the Permittee is a participant in IDEM's Partners for Clean Air Program and receives notification of Ozone Action Days from IDEM -

OAQ. The Permittee will initiate the ozone action plan. A high ozone level day shall be predicted by the Permittee by using notification from IDEM, OAQ of an ozone action day.

D.6.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, is required for these facilities and any associated emission control devices.

Compliance Determination Requirements

D.6.7 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.3, the Permittee shall perform simultaneous sampling and analysis of both non-condensable (front half) and condensable (back half) PM_{10} on Sinter Plant Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as listed in 326 IAC 6.8-4-1(5) or a testing method approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.3, the Permittee shall perform PM_{10} testing on the Discharge Ends Area Baghouse Stacks IS6200, IS6201 and IS6202, using the appropriate methods to measure PM10 as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(c) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.3, the Permittee shall perform PM_{10} testing of the three (3) Sinter Coolers Stacks IS6203, IS6204 and IS6205, using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(d) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.4, the Permittee shall perform SO_2 testing on Sinter Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.6.8 Particulate Matter Control

(a) Except as otherwise provided by statue, rule or this permit the control devices as listed in (1) through (5) below shall be in operation at all times the associated processes are in operation to control particulate emissions.

(1) Sinter Plant Windbox Gas Cleaning System each comprised of a Quench Reactor, Dry Venturi Scrubber, and a Baghouse in series, identified as emission units IS3203 and IS3204, shall be in operation at all times when the No. 3 Sinter Plant Sinter Windbox is in operation.

(2) The Cold Screen Station Baghouse, identified as control device IS3209, shall be in operation at all times when the No. 3 Sinter Plant Cold Screen Station is in operation.

(3) The S1/S2 Conveyor System Baghouse, identified as control device IS3208, shall be in operation at all times material is conveyed by the No. 3 Sinter Plant S1/S2 conveyor system.

(4) The Sinter Strand Discharge Ends Area Baghouses, identified as control devices IS3205, IS3206, IS3207, shall be in operation at all times when the associated No. 3 Sinter Plant Sinter Strand Discharge Ends Area and Sinter Coolers are in operation.

(5) The Blended Material Storage Bins Baghouse, identified as control device IS3196, shall be in operation at all times when material is being transferred in the building.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.6.9 Visible Emissions Notations

(a) Visible emission notations of the Sinter Strand Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station Stack IS6207, Sinter Cooler Stacks IS6203, IS6204 and IS6205 and Discharge Ends Area Stacks IS6200, IS6201 and IS6202, shall be performed once per day during normal daylight operations when the No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning System, Cold Screen Station, Sinter Coolers and Discharge Ends Area are in operation. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed**,** the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

D.6.10 Parametric Monitoring

(a) The Permittee shall record the pressure drop and liquid reagent flow rate of the dry ventri scrubbers used in conjunction with the No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning Systems at least once per day when the No. 3 Sinter Plant Sinter Strand Windbox units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the range of 3 to 8 inches of water and the flow rate of the scrubber is outside the range of 400 to 600 gallons per minute (gpm) or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure drop or flow rate that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(b) The Permittee shall record the pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Discharge Ends Area at least once per day when the No. 3 Sinter Plant Discharge Ends Area is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of 3 to 8 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(c) The Permittee shall record the pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Cold Screen Station at least once per day when the No. 3 Sinter Plant Cold Screen Station is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of 3 to 8 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

(e) The instruments used for determining the pressure drop and flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

D.6.11 Scrubber Failure Detection

In the event, a scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C - Emergency Provisions).

D.6.12 Continuous Emissions Monitoring (VOC)[326 IAC 8-13-8][326 IAC 3-5]

The Permittee shall operate the continuous emissions monitoring system (CEMS) for the measurement of VOC emissions discharged into the atmosphere from the No. 3 Sinter Plant Sinter Windbox gas cleaning system stacks IS6198 and IS6199, in accordance with 326 IAC 8-13-8, and 326 IAC 3-5.

(a) The continuous emissions monitoring system (CEMS) shall measure VOC emission rate in pounds per hour.

(b) The Permittee shall demonstrate compliance with Condition D.6.6 utilizing data from the VOC CEMS and 326 IAC 8-13-3(b) calculations.

(c) The Permittee shall follow the maintenance, operating procedures, quality assurance procedures and performance specifications for the VOC CEMs in 326 IAC 3-5.

(c) In the event of an exceedance of VOC emissions, the Permittee shall implement the corrective action plan requirements in 326 IAC 8-13-4(b)(5).

D.6.13 VOC Monitoring Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

Whenever the VOC continuous emission monitoring system is malfunctioning or down for repairs or adjustments for more than four (4) hours, the following method shall be used to provide information related to VOC emissions:

(a) The Permittee shall not include oily scale in the sinter plant burden raw materials, and

(b) Sample and analyze the sinter burden for oil and grease utilizing the methods and calculations in 326 IAC 8-13-5(d).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.14 General Record Keeping Requirements

(a) To document compliance with Condition D.6.2 and pursuant to Significant Source Modification 089-12880-00121, issued on July 26, 2001, the Permittee shall maintain records of the Coke oven gas and natural gas usage in the No. 3 Sinter Plant Strand Windbox gas reheat burners ISB001, ISB002 and ISB003.

(b) To document compliance with Condition D.6.4, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide (SO_2) Record Keeping (Entire Source).

(c) To document compliance with Condition D.6.5, the Permittee shall maintain the following records:

(1) Records of the VOC emissions monitoring data for the period May 1 through September 30, as follows:

(A) The VOC emitted each day.

(B) The cumulative total of VOC emitted.

(C) The sinter produced each operating day.

(2) Maintain records of the VOC continuous emissions monitor system (CEMS) as required in 326 IAC 3-5.

(d) To document compliance with Condition D.6.9 the Permittee shall maintain records of once per day visible emission notations of the Sinter Cooler Stacks IS6203, IS6204 and IS6205 exhausts.

(e) To document compliance with Condition D.6.10, the Permittee shall maintain the records of the Sinter Plant Windbox Gas Cleaning system pressure drop across the baghouse; pressure drop and flow rate of the Sinter Plant Windbox Gas Cleaning Scrubbers; pressure drop across the Cold Screen Station Baghouse and pressure drop across the Discharge Ends Area baghouse during normal operation on at least a once per day basis.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.6.15 General Reporting Requirements

(a) Pursuant to Significant Source modification 089-12880-00121, a quarterly summary of the natural gas and coke oven gas usage at the No. 3 Sinter Plant Sinter Strands Windbox recirculating burners per 12-consecutive month period with compliance demonstrated at the end of each month to document compliance with Conditions D.6.2, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

(b) Pursuant to 326 IAC 8-13-8(a)(3), reports to document compliance with Condition D.6.5, shall be as follows:

(1) For VOC Continuous Emissions Monitoring System (CEMS), the following reports shall be submitted:

(A) A report shall be submitted within thirty (30) days of an exceedance of VOC emission limits in D.6.6 containing the following information:

(i) The name and location of the source.

(ii) The nature of the exceedance.

(iii) The date of the occurrence.

(iv) The cause of the exceedance, such as, but not limited to, production rates or characteristics of the sinter burden.

(v) The corrective action taken according to the corrective action plan in 326 IAC 8-13-4(b)(5).

(B) Submit the CEM certification reports according to the procedures and schedule in 326 IAC 3-5.

(c) A quarterly summary report to document compliance with condition D.6.4 shall be submitted to IDEM, in accordance with Section C – Sulfur Dioxide (SO_2) Reporting Requirements (Entire Source).

(d) The reports submitted by the Permittee do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

D.6.16 National Emission Standards for Hazardous Air Pollutants (HAPs): Integrated iron and Steel Manufacturing – Sinter Plants [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing sinter plant at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler.

(d) A sinter plant at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A sinter plant at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by the dates specified in paragraphs (a)(1) and (2) of this section.

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(2) No later than January 13, 2007 for a sinter cooler at an existing sinter plant.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major

source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) and (2) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a sinter plant discharge end at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

(d) For each sinter plant, you must either:

(1) Maintain the 30-day rolling average oil content of the feedstock at or below 0.02 percent; or

(2) Maintain the 30-day rolling average of volatile organic compound emissions from the windbox exhaust stream at or below 0.2 lb/ton of sinter.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan

must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions.

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(7) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must also conduct a performance test to demonstrate initial compliance with the 30-day rolling average operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1) or alternative limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2). You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart at the frequencies specified in paragraphs (b) through (d) of this section.

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(c) For each sinter plant windbox exhaust stream, you must complete the requirements of paragraphs (c)(1) and (2) of this section:

(1) Follow the procedures in your operation and maintenance plan for measuring and recording the sinter production rate for each test run in tons per hour; and

(2) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this

section as follows:

$$E_p = \frac{C \times Q}{P \times K} \qquad \text{(Eq. 1)}$$

Where:

E_p = Process-weighted mass emissions of particulate matter, lb/ton;

C = Concentration of particulate matter, grains per dry standard cubic foot (gr/dscf);

Q = Volumetric flow rate of stack gas, dry standard cubic foot per hour (dscf/hr);

P = Production rate of sinter during the test run, tons/hr; and

K = Conversion factor, 7,000 grains per pound (gr/lb).

(d) If you apply two or more control devices in parallel to emissions from a sinter plant discharge end, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages.

(e) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter cooler at an existing sinter plant:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages.

(3) Make visible emission observations of uncovered portions of sinter plant coolers with the observer's line of sight generally in the direction of the center of the cooler.

§63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. **You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.**

(1) Using the ~~continuous parameter monitoring system (~~CPMS~~)~~ required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(c) You may change the operating limits for a capture system, venturi scrubber, if you meet the

requirements in paragraphs (c) (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

(d) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (d))(1) through (3) of this section.

(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, “n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples,” (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW–846 “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.” Record the sampling date and time, oil content values, and sinter produced (tons/day).

(2) Continue the sampling and analysis procedure for 30 consecutive days.

(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.

(f) To demonstrate initial compliance with the alternative operating limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2), follow the test methods and procedures in paragraphs (f)(1) through (5) of this section.

(1) Determine the volatile organic compound emissions according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 25 to determine the mass concentration of volatile organic compound emissions (total gaseous nonmethane organics as carbon) from the sinter plant windbox exhaust stream stack.

(2) Determine volatile organic compound (VOC) emissions every 24 hours (from at least three samples taken at 8-hour intervals) using Method 25 in 40 CFR part 60, appendix A. Record the sampling date and time, sampling results, and sinter produced (tons/day).

(3) Compute the process-weighted mass emissions (E_v) each day using Equation 1 of this section as follows:

$$E_v = \frac{M_c \times Q}{35.31 \times 454,000 \times K} \qquad \text{(Eq. 1)}$$

Where:

E_v = Process-weighted mass emissions of volatile organic compounds, lb/ton;

M_c = Average concentration of total gaseous nonmethane organics as carbon by Method 25 (40 CFR part 60, appendix A), milligrams per dry standard cubic meters (mg/dscm) for each day;

Q = Volumetric flow rate of stack gas, dscf/hr;

35.31 = Conversion factor (dscf/dscm);

454,000 = Conversion factor (mg/lb); and

K = Daily production rate of sinter, tons/hr.

(4) Continue the sampling and analysis procedure in paragraphs (f)(1) through (3) of this section for 30 consecutive days.

(5) Compute and record the 30-day rolling average of VOC emissions for each operating day.

(g) You may use an alternative test method to determine the oil content of the sinter plant feedstock or the volatile organic compound emissions from the sinter plant windbox exhaust stack if you have already demonstrated the equivalency of the alternative method for a specific plant and have received previous approval from the applicable permitting authority.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b).

(b) For each existing or new sinter plant subject to the operating limit in §63.7790(d)(1), you have demonstrated initial compliance if the 30-day rolling average of the oil content of the feedstock, measured during the initial performance test in accordance with §63.7824(e) is no more than 0.02 percent.~~.~~ For each existing or new sinter plant subject to the alternative operating limit in §63.7790(d)(2), you have demonstrated initial compliance if the 30-day rolling average of the volatile organic compound emissions from the sinter plant windbox exhaust stream, measured during the initial performance test in accordance with §63.7824(e) is no more than 0.2 lb/ton of sinter produced.

(c) For each emission limitation that applies to you, you must submit a notification of compliance

status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a sinter plant discharge end you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, as applicable, detailed descriptions of the corrective action procedures for baghouses and or control devices;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(2) If you use a flow measurement device to monitor the operating limit parameter for a sinter plant discharge end, you must monitor the hourly average rate (*e.g.,* the hourly average actual volumetric flow rate through each separately ducted hood, the average hourly total volumetric flow rate at the inlet to the control device) according to the requirements in §63.7832.

(b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements

in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

(d) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the 6-minute average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(e) For each sinter plant subject to the operating limit in §63.7790(d), you must either:

(1) Compute and record the 30-day rolling average of the oil content of the feedstock for each operating day using the procedures in §63.7824(e); or

(2) Compute and record the 30-day rolling average of volatile organic compound emissions (lbs/ton of sinter) for each operating day using the procedures in §63.7824(f).

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through ~~(6)~~ **(8)**of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(8) Corrective action procedures you will follow in the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific

monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(h) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain each COMS according to the requirements in paragraphs (h)(1) through (4) of this section.

(1) You must install, operate, and maintain each COMS according to Performance Specification 1 in 40 CFR part 60, appendix B.

(2) You must conduct a performance evaluation of each COMS according to §63.8 and Performance Specification 1 in appendix B to 40 CFR part 60.

(3) Each COMS must complete a minimum of one cycle of sampling and analyzing for each

successive 10-second period and one cycle of data recording for each successive 6-minute period.

(4) COMS data must be reduced to 6-minute averages as specified in §63.8(g)(2) and to hourly averages where required by this subpart..

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) or (2) of this section as applicable, and paragraphs (c)(3) and (4) of this section:

(1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by meeting the requirements of paragraphs (d)(1) through ~~(3)~~ **(4)** of this section:

~~(~~

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

(e) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must demonstrate continuous compliance by meeting the requirements of paragraphs (e)(1) and (3) of this section:

(1) Maintaining the hourly average opacity of emissions no higher than 10 percent; and

(2) Operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) If the hourly average opacity of emissions exceeds 10 percent, you must follow the corrective action procedures in paragraph (g) of this section.

(f) For each new or existing sinter plant subject to the operating limit in §63.7790(d), you must demonstrate continuous compliance by either:

(1) For the sinter plant feedstock oil content operating limit in §63.7790(d)(1),

(i) Computing and recording the 30-day rolling average of the percent oil content for each operating day according to the performance test procedures in §63.7824~~(e)~~(**d),**

(ii) Recording the sampling date and time, oil content values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average oil content of the feedstock no higher than 0.02 percent.

(2) For the volatile organic compound operating limit in §63.7790(d)(2),

(i) Computing and recording the 30-day rolling average of volatile organic compound emissions for each operating day according to the performance test procedures in §63.7824(~~f)~~**(e)**;

(ii) Recording the sampling date and time, sampling values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average of volatile organic compound emissions no higher than 0.2 lb/ton of sinter produced.

(g) If the hourly average pressure drop or water flow rate for a venturi scrubber or hourly average opacity for an electrostatic precipitator exceeds the operating limit, you must follow the procedures in paragraphs (g)(1) through (4) of this section.

(1) You must initiate corrective action to determine the cause of the exceedance within 1 hour. During any period of corrective action, you must continue to monitor and record all required operating parameters for equipment that remains in operation. Within 24 hours of the exceedance, you must measure and record the hourly average operating parameter value for the emission unit on which corrective action was taken. If the hourly average parameter value meets the applicable operating limit, then the corrective action was successful and the emission unit is in compliance with the applicable operating limit.

(2) If the initial corrective action required in paragraph (g)(1) of this section was not successful, you must complete additional corrective action within the next 24 hours (48 hours from the time of the exceedance). During any period of corrective action, you must continue to monitor and record all required operating parameters for equipment that remains in operation. After this second 24-hour period, you must again measure and record the hourly average operating parameter value for the emission unit on which corrective action was taken. If the hourly average parameter value meets the applicable operating limit, then the corrective action was successful and the emission unit is in compliance with the applicable operating limit.

(3) For purposes of paragraphs (g)(1) and (2) of this section, in the case of an exceedance of the hourly average opacity operating limit for an electrostatic precipitator, measurements of the hourly average opacity based on visible emission observations in accordance with Method 9 (40 CFR part 60, appendix A) may be taken to evaluate the effectiveness of corrective action.

(4) If the second attempt at corrective action required in paragraph (g)(2) of this section was not successful, you must report the exceedance as a deviation in your next semiannual compliance report according to §63.7841(b).

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through (4) of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a baghouse equipped with a bag leak detection system or COMS according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements, including the time you initiated

corrective action, the corrective action(s) taken, and date on which corrective action was completed.

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

.(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* Except as provided in §63.7833(g), you must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance

demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in

§63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90, except for approval of an alternative method for the oil content of the sinter plant feedstock or volatile organic compound measurements for the sinter plant windbox exhaust stream stack as provided in §63.7824**(f**).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal

transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an

electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
1. Each windbox exhaust stream at an existing sinter plant.	You must not cause to be discharged to the atmosphere any gases that contain particulate matter in excess of 0.4 lb/ton of product sinter.

3. Each discharge end at an existing sinter plant	a. You must not cause to be discharged to the atmosphere any gases that exit from one or more control devices that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf \1\;**\2** and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the building or structure housing the discharge end that exhibit opacity greater than 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant	You must not cause to be discharged to the atmosphere any gases that exhibit opacity greater than 10 percent (6-minute average).

\1\ This limit applies if the cooler is vented to the same control device as the discharge end.
\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant if the control device was installed before August 30, 2005.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
1. Each windbox exhaust stream at an existing sinter plant	The process-weighted mass rate of particulate matter from a windbox exhaust stream, measured according to the performance test procedures in § 63.7822(c), did not exceed 0.4 lb/ton of product sinter.
3. Each discharge end at an existing sinter plant	a. The flow-weighted average concentration of particulate matter from one or more control devices applied to emissions from a discharge end, measured according to the performance test procedures in § 63.7822(d), did not exceed 0.02 gr/dscf; and b. The opacity of secondary emissions from each discharge end, determined according to the performance test procedures in §63.7823(c), did not exceed 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant.	The opacity of emissions determined according to the performance test procedures in §63.7823(e), did not exceed 10 percent (6-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity

Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by .
1. Each windbox exhaust stream at an existing sinter plant	a. Maintaining emissions of particulate matter at or below 0.4lb/ton of product sinter; and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
3. Each discharge end at an existing sinter plant.	a. Maintaining emissions of particulate matter from one or more control devices at or below 0.02 gr/dscf; and b. Maintaining the opacity of secondary emissions that exit any opening in the building or structure housing the discharge end at or below 20 percent (6-minute average); and c. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
5. Each sinter cooler stack at an existing sinter plant	a. Maintaining emissions of particulate matter at or below 0.03 gr/dscf; and b. Conducting subsequent performance sinter plant tests at the frequencies specified in §63.7821.

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies methods and procedures for determining compliance with opacity emission and operating limits
§ 63.6(i)	Extension of Compliance with Emission Standards.	Yes.	

§ 63.6(j).	Exemption from compliance with Emission Standards	Yes.	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-(3), (b), (c)(1)-(3), (c)(4)(i)-(ii), (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-**(**ii), (c) (5)-(6), (d), and (e) apply only to COMS.
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
§ 63.8(g)(5)	Data Reduction	**No**	Subpart FFFFF specifies data reduction requirements.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS.
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	Subpart FFFFF specifies reporting requirements
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

Section D.7 Facility Operation Conditions

Facility Description [326 IAC 2-7-5(15)]: Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No. 14

(a) Raw materials shipped to the ore yard identified as IAOYO366, are transferred to the Highline, identified as IAHL0307, from which raw material shipments and coke are sent through the Stockhouse.

(b) The No. 14 Blast Furnace Stockhouse, constructed in 1979, identified as IDSH0367, controlled by dust suppression, services Blast Furnace 14. The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4. The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. The No. 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.

(c) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.

(1) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 MMBtu per hour total combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.

(2) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

(3) One (1) Slag Pit, identified as IASP0311, with fugitive emissions.

(d) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 tons per hour, identified as IBBFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 6 Blast Furnace Stoves identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 MMBtu per hour total, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

(3) One (1) Slag Pit, identified as IBSP0335, with fugitive emissions.

(e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No. 14 (continued):

(2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

(3) One (1) Slag Pit, identified as ICSP0363, with fugitive emissions.

(f) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.

(1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184

(2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187and fugitive emissions exhausting through the casthouse roof monitor ID6013;

(3) One (1) Slag Pit, identified as IDSP0371, with fugitive emissions.

(4) Pursuant to Significant Source Modification 089-20118-00121, issued October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were approved for construction:

(A) Replacement of furnace refractory lining with new and thinner refractory brick.

(B) Replacement of furnace shell.

(C) Removal and replacement of the top charging system with a new “bell-less” charging system.

(D) Placement of new copper staves in the mantle area of the furnace.

(E) Installation of copper cooling plates and a new bustle pipe.

(F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.

(G) Enlargement of the slag granulator and addition of a stack.

(H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.

(I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No. 14 (continued):

(g) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas to the three (3) bleeder stacks equipped with Flare No. 1 identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.

(h) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.

(i) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected sources, the No. 4 Blast Furnace casthouse, No. 6 Blast Furnace casthouse, No. 8 Blast Furnace casthouse and No. 14 Blast Furnace casthouse, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF.

D.7.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions shall comply with the following:

(a) The PM_{10} emissions from the Blast Furnace No. 4 stoves Stack IA6160 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(b) The PM_{10} emissions from the Blast Furnace No. 6 stoves Stack IB6168 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(c) The PM_{10} emissions from the Blast Furnace No. 8 stoves Stack IC6175 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(d) The PM_{10} emissions from the Blast Furnace No. 14 stoves Stack ID6184 shall not exceed 0.029 pound per MMBtu of heat input and a total of 20.40 pounds per hour.

(e) The PM_{10} emissions from the Number 14 Blast Furnace Casthouse Baghouse Stack ID6187shall not exceed 0.0090 grains per dry standard cubic feet and 38.57 pounds per hour

(f) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving".

D.7.3 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

(1) The iron beaching and ladle maintenance generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust

concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from iron beaching and ladle maintenance generating fugitive emissions shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

D.7.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(a)(1)(I)(J) and (K)

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(I)(J), and (K), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.14 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is not operating:

Furnace	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Blast Furnace No. 4 Stove Stack	0.115	40.25 total
Blast Furnace No. 6 Stove Stack	0.115	40.25 total
Blast Furnace No. 8 Stove Stack	0.115	37.38 total
Blast Furnace No.14 Stove Stack during periods when combusting blast furnace gas	0.134	93.50 total
Blast Furnace No. 14 Casthouse	---	115.0

Baghouse Stack during periods when Blast Furnace No. 14 Stoves are combusting blast furnace gas.		

(b) Pursuant to 326 IAC 7-4.1-20(b)(5) and (9), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.14 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is operating:

Furnace	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Blast Furnace No. 4 Stove Stack	0.115	40.25 total
Blast Furnace No. 6 Stove Stack	0.115	40.25 total
Blast Furnace No. 8 Stove Stack	0.115	37.38 total
Blast Furnace No.14 Stove Stack	0.134	93.50 total
Blast Furnace No. 14 Casthouse Baghouse Stack	---	115.0

D.7.5 Carbon Monoxide (CO) Limitations [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. 14 Blast Furnace IDBF0369, waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

D.7.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.7.7 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last valid compliance demonstration which ever is earlier, in order to demonstrate compliance with Condition D.7.3, the Permittee shall perform PM_{10} testing on the No. 14 Blast Furnace Casthouse Baghouse Stack ID6187 using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.7.8 Sulfur Fuel Sampling and Analysis [326 IAC 7-4-1.1(d)]

To demonstrate compliance with condition D.7.5, the Permittee shall perform the Sulfur Fuel Sampling and Analysis in accordance with Section C - Sulfur Fuel Sampling and Analysis of this permit.

D.7.9 Particulate Matter and CO Control [326 IAC 2-7-6(6)]

(a) Except as otherwise provided by statute, rule or this permit, the baghouses for PM control shall be in operation and control emissions at all times the associated coal processing or drop point conveyors are in operation.

(1) Nos. 4, 6 and 8 Blast Furnace natural gas iron oxide fume suppression systems IA3177, IB3178, IC3179, shall be in operation in order minimize particulate matter emissions as follows:

(A) The iron and slag runners at the No. 4 Blast Furnace shall be equipped with a natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(B) The iron and slag runners at the No. 6 Blast Furnace shall be equipped with a natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(C) The iron and slag runners at the No. 8 Blast Furnace shall be equipped with a natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(2) The No. 14 blast furnace Casthouse Baghouse ID3185 shall be in operation at all times during casting operations at the No. 14 Blast Furnace Casthouse is in operation.

(3) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) Carbon Monoxide Emissions Control

The Blast Furnace Gas Distribution System Flare controls GC3629, GC3628 and GC3627 and bleeder stack Flare No. 1 BG6073, Flare No. 2 BG6074 and Flare No. 4 BG6075 shall be in operation and the pilot flame shall be present at all times when the No. 14 Blast Furnace, No. 4 Blast Furnace, No. 6 Blast Furnace and No. 8 Blast Furnace are in operation in order to minimize CO emissions.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.7.10 Visible Emissions Notations

(a) Visible emission notations of the No. 14 Blast Furnace Casthouse Baghouse Stack ID6187 and iron beaching shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

D.7.11 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the No. 14 Blast Furnace Cast house baghouse ID3185, at least once per day when the No.14 Blast Furnace Casthouse is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 3 to 9 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation of this permit.

(b) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

(c) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.7.12 General Record Keeping Requirements

(a) To document compliance with Condition D.7.4, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide SO_2 Record Keeping (Entire Source).

(b) To document compliance with Condition D.7.10, the Permittee shall maintain records of once per day visible emission notations of the No. 14 Casthouse Baghouse Stack (ID6187) and the iron beaching facility when in operation.

(c) To document compliance with Condition D.7.11, the Permittee shall maintain the records of the once per day pressure drop of the No. 14 Casthouse Baghouse during normal operation.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.7.13 General Reporting Requirements

A quarterly summary report to document compliance with condition D.7.4 shall be submitted to IDEM in accordance with Section C – Sulfur Dioxide SO_2 Reporting Requirements (Entire Source). The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.7.14 Actual to Projected Actual Applicability Test [326 IAC 2-2-2(d)] [326 IAC 2-2-3(c)]

(a) Pursuant to SSM 089-20118-00121, issued October 20, 2005, 326 IAC 2-2-2(d) and 326 IAC 2-3-2(c), the No. 14 Blast Furnace Reline Project shall not cause a significant net emission increase for any of the pollutants listed in 326 IAC 2-2-1(xx) and 326 IAC 2-3-1(qq).

The significant net emission increase shall be determined using the Actual to Projected Actual Applicability Test.

Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) are not applicable.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when the new or modified equipment begins normal operation.

(c) If there is a reasonable possibility that the No. 14 Blast Furnace Reline Project may result in a significant emission increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and 326 IAC 2-3-1 (mm)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and 326 IAC 2-3-1(ll)) at an existing emission unit, document and maintain the following records:

(A) A description of the project;

(B) Identification of any emission unit whose emissions of a regulated new source review (NSR) pollutant could be affected by the project;

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emission unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or the potential to emit that regulated NSR pollutant at the emission unit.

D.7.15 Volatile Organic Compounds (VOC) De Minimis [326 IAC 2-3-2(b)]

Pursuant to SSM 089-20118-00121, issued October 20, 2005 and 326 IAC 2-3-2(b), the VOC emissions increases for the five (5) calendar year period January 2000 to December 2005 plus the net emission increase from the No. 14 Blast Furnace Reline Project resulted in an emission increase less than the VOC de minimis level (25 tons per year).

D.7.16 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Blast Furnaces [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing blast furnace at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the blast furnace casthouse.

(d) A blast furnace at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A blast furnace at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

((a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by the dates specified in paragraphs (a)(1) and (2) of this section.

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for **a**

sinter cooler at an existing sinter plant.

(2) No later than January 13, 2007 for a sinter cooler at an existing sinter plant.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraph (b)(1) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a blast furnace casthouse at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must

address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end or blast furnace casthouse, or to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric

monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(7) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM

and opacity limits in Table 1 to this at the frequencies specified in paragraphs (b) through (d) of this section.

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(e) For a control device applied to emissions from a blast furnace casthouse, sample for an integral number of furnace tapping operations sufficient to obtain at least 1 hour of sampling for each test run.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations

overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a blast furnace casthouse:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages. For a blast furnace casthouse, make observations during tapping of the furnace. Tapping begins when the furnace is opened, usually by creating a hole near the bottom of the furnace, and ends when the hole is plugged.

§63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(c) You may change the operating limits for a capture system or venture scrubber if you meet the requirements in paragraphs (c)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data

measured during the performance test in accordance with §63.7824(a)(1).

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a blast furnace casthouse, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, as applicable, detailed descriptions of the corrective action procedures for baghouses and or control devices;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraph (a)(1) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through (8) of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust

emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the

alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1 or (2) of this section as applicable, and paragraphs (c)(3) and (4) of this section:

(1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and

reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a baghouse equipped with a bag leak detection system or COMS according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements**,** including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* Except as provided in §63.7833(g), you must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup,

shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of

according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that

are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation

occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on

tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of

steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For . .	You must comply with each of the following .
7. Each casthouse at an existing blast furnace	a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf \2\ and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 20 percent (6-minute average).
8. Each casthouse at a new blast furnace	a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.003 gr/dscf; and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 15 percent (6-minute average).

\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For .	You have demonstrated initial compliance if
7. Each casthouse at an existing blast furnace...	a. The average concentration of particulate matter from a control device applied to emissions from a casthouse, measured according to the performance test procedures in § 63.7822(e), did not exceed0.01 gr/dscf; and b. The opacity of secondary emissions from each casthouse, determined according to the performance test procedures in § 63.7823(c), did not exceed 20 percent (6-minute average).
8. Each casthouse at a new blast furnace	a. The average concentration of particulate matter from a control device applied to emissions from a casthouse, measured according to the performance test procedures in § 63.7822(e), did not exceed 0.003 gr/dscf; and b. The opacity of secondary emissions from each casthouse, determined according to the performance test procedures in§ 63.7823(c), did not exceed 15 percent (6-minute average

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For	You must demonstrate continuous compliance by.
7. Each casthouse at an existing blast furnace.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf; **and** b. Maintaining the opacity of secondary emissions that exit any opening in the casthouse or structure housing the blast furnace at or below 20 percent (6-minute average); and c. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
8. Each casthouse at a new blast furnace.	a. Maintaining emissions of furnace particulate matter from a control device at or below 0.003 gr/dscf; and b. Maintaining the opacity of secondary emissions that exit any opening in the casthouse or structure housing the casthouse at or below 15 percent (6-minute average);and c. Conducting subsequent performance tests at the frequencies specified in § 63.782

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies methods and procedures for determining compliance with opacity emission and operating limits
§63.6(i)	Extension of Compliance with Emission Standards.	Yes.	
§ 63.6(j).	Exemption from compliance with Emission Standards	Yes.	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.

§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-(3), (b), (c)(1)-(3), (c)(4)(i)-(ii), (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-(ii), (c) (5)-(6), (d), and (e) apply only to COMS.
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	Data Reduction	No	Subpart FFFFF specifies data reduction requirements.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS.
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	Subpart FFFFF specifies reporting requirements
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

SECTION D.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Number 1 BOP Shop.

(a) Two (2) Stations, identified as No. 1 and No. 2, Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

(b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 80 tons per hour. Emissions are controlled by No.1, No. 2 and No. 3 baghouses SS3058, SS3059, and SS3053. Nos.1 and 2 exhaust inside the building and No. 3 discharges through stack SS6056.

(c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

(d) Two (2) gas cleaning systems SS3103 and SS3104 that process the exhaust gases from the three (3) steel making vessels consisting of three (3) quenchers, two (2) scuppers, two (2) venturi scrubbers, two (2) separators, two (2) gas coolers fitted with internal mist eliminators and two (2) induced draft fans. Emissions exhaust through stacks SS6102 and SS6103.

(e) CASbell/OB Lancing Stations M, D and E, include the controlled argon stirring process and blowing of oxygen to maintain temperature and chemistry. Constructed in 1981, Station M, identified as SSCM0231, Station E identified as SSCE0232, and Station D identified as SSCD0233 with a maximum capacity of 250 tons per hour each. Emissions are controlled by the CASbell/OB Lancing baghouse SS3105, exhausting through Stack SS6104 and uncaptured emissions venting to the roof monitor SS6636.

(f) One (1) Slingot Moulding Station, including the casting of bottom-poured steel ingots, identified as SSMS0227, constructed in 1965, exhausting to the roof monitor SS6637.

(g) Nine (9) natural gas fired Ladle Preheaters and Dryers identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructed in 1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as SSLD0230, exhausting through Roof Monitor SS6637.

(h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of 275 tons per hour. Emissions exhaust through Roof Monitor SC6638.

(i) One (1) fugitive emissions mitigation system at the No.1 BOP Shop, constructed in June 2002, consisting of a capture hood system ducted to a 99% efficient baghouse with a flow rate of 11,500 acfm.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15): Number 1 BOP Shop (continued):

(j) One emergency slag skimming station with a maximum capacity of 456 tons per hour with emissions ducted to the Hot Metal Transfer Station and Desulfurization/Skimming Stations Baghouse SS3100.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.8.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected sources, No.1 BOP Shop including the BOP Furnace, and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, ladle metallurgy, and roof monitoring except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF.

D.8.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions from the No. 1 Basic Oxygen Process Shop operations shall comply with the following:

(a) The PM_{10} emissions from the No. 1 BOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse discharge shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 15.0 pounds per hour.

(b) The PM_{10} emissions from the No. 1 BOP Shop Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed 0.011 grains per dry standard cubic foot of exhaust air and a total of 46.0 pounds per hour.

(c) The PM_{10} emissions from the No. 1 BOP CASBell/OB Lancing Baghouse Stack SS6104 shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 5.10 pounds per hour.

(d) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.8.3 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the particulate emissions from the roof monitors SS6636, NS6637 and SS6638 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

D.8.4 Lake County Opacity Limitations [326 IAC 6.8-3-4]

Pursuant to 326 IAC 6.8-3-4, the visible emissions from the Number 1 Basic Oxygen Furnace operations shall comply with the following:

(a) Opacity from the Hot Metal Transfer and Desulfurization Stations baghouse stack discharge shall not exceed five percent (5%) opacity, for any three (3) minute average.

(b) Opacity from the No. 1 BOP Shop Roof Monitor SS6636 Operations shall not exceed twenty percent (20%) for any three (3) minute average.

(c) Opacity from the BOP Furnace Operations Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed twenty percent (20%), for any six (6) minute average.

D.8.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3)]

Pursuant to 326 IAC 7-4.1-20(c)(3), an emission unit shall burn natural gas only:

(a) If it is not listed in this rule; or

(b) under any operating condition not specifically listed in this rule.

D.8.6 Sulfur Dioxide (SO_2) Limitations Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, the Permittee shall comply with the following:

(1) The SO_2 emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, as applicable.

(2) The SO_2 emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(M) and ((b)(11), the SO_2 emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

D.8.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.8.8 Particulate Matter Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing on the No. 1 BOP Desulfurization Baghouse discharge using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing on the No. 1 BOP Gas Cleaning Systems Stacks SS6102 and SS6103 the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.8.9 Sulfur Dioxide Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the

date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization station baghouse discharge utilizing the test method 40 CFR 60, Appendix A Method 6C or other methods as submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to show compliance with condition D.8.7(a). This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization Station Baghouse discharge utilizing the test method 40 CFR 60, Appendix A Method 6C or other methods as submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to demonstrate compliance with condition D.8.7(b) during the desulfurization reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 demonstration of compliance by performance testing per D.8.9 (b) above shall not fulfill the compliance demonstration requirement for D.8.9(a).

D.8.10 Particulate Matter Control [326 IAC 2-7-6(6)]

(a) Except as otherwise provided by statue, rule or this permit, the control devices listed below shall be in operation for particulate emissions control at all times the associated process is in operation. The control devices are as follows:

(1) Te Hot Metal Desulfurization/Skimming Baghouse SS3100,

(2) Flux Handling System Baghouses SS3053, SS3058 and SS3059,

(3) BOP Gas Cleaning systems SS3103 and SS3104; and

(4) CASBell/OB Lancing Station Baghouse SS3105.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.8.11 Visible Emissions Notations

(a) Visible emission notations of the BOP Operations Gas Cleaning System stacks SS6102 and SS6103, and CASBell/OB Lancing Station Baghouse stack SS6104, shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C - Continuous Compliance Plan.

D.8.12 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the CASBell/OB Lancing Stations baghouse SS3105 used in conjunction with the CASBell/OB Lancing Stations, at least once per day when the CASBell/OB Lancing Stations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(b) The Permittee shall record the pressure drop and flow rate of the scrubbers used in conjunction with the three (3) BOP vessels M, E, and D, at least once per day when the three (3) BOP vessels M, E, and D units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the normal range of 50.0 and 90.0 inches of water or the flow rate of the scrubbers is outside the range of 2500 and 4500 gallons per minute (gpm) or ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(c) The Permittee shall record the pressure drop across the Hot Metal Transfer and Desulfurization Baghouse SS3100 used in conjunction with the No. 1 BOP Hot Metal Desulfurization stations, at least once per day when the No. 1 BOP Hot Metal Desulfurization Stations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2 to 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances.. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

(e) The instruments used for determining the pressure and flow rate shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.8.13 Scrubber Failure Detection

In the event that a scrubber failure has been observed:
Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.8.14 General Record Keeping Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and in order to document compliance with Condition D.8.6, the Permittee shall keep records of the monthly hot metal throughput for the No1 and No. 2 Hot Metal Transfer and Desulfurization Stations.

(b) To document compliance with Visible Emission Notations, Condition D.8.11, the Permittee shall maintain records of once per day visible emission notations of the Hot Metal Desulfurization Baghouse Stack SS6101, the BOP Gas Cleaning System Stacks SS6102 and SS6103 and the CASBell/OB Lancing Station Baghouse Stacks SS6104 exhausts.

(c) To document compliance with Condition D.8.12, the Permittee shall maintain records of the parametric monitoring CASBell/OB Lancing Station Baghouse SS3105 and Hot Metal Transfer and Desulfurization Baghouse SS3100 total static pressure drop, and No.1 BOP Shop Gas Cleaning System scrubbers, pressure drop across the venturi throats and scrubber supply water flow rate once per day during normal operation.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]

D.8.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by the dates specified in paragraphs (a)(1) and (2) of this section.

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1)

through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the hourly average opacity of emissions exiting the control device at or below 10 percent.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the

value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart at the frequencies specified in paragraphs (b) through (d) of this section.

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations

overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter, record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.

(1) Using the CPMS required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(c) You may change the operating limits for a capture system or venturi scrubber, if you meet the requirements in paragraphs (c) (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b).

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, as applicable, detailed descriptions

of the corrective action procedures for baghouses and or control devices;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel production cycle) according to the requirements in §63.7832.

(b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or

other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through **(**8)of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated

repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) or (2) of this section as applicable, and paragraphs (c)(3) and (4) of this section:

(1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by meeting the requirements of paragraphs (d)(1) through (4) of this section:

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no

lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a baghouse equipped with a bag leak detection system or COMS according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* Except as provided in §63.7833(g),you must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to

the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of

according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that

are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation

occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on

tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of

steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
9. Each BOPF at a new or existing shop.	a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\ ,\3\; and b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle for an existing BOPF shop \2\, \3\ or 0.01 gr/dscf during the steel production cycle for a new BOPF shop; \3\ and c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitoring at an existing BOPF shop.	You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).

\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.
\3\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop; b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. The average concentration of particulate matter from a control device applied solely to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop	The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitor at an existing BOPF shop.	The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below 0.03 gr/dscf; and b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. Maintaining emissions of particulate matter from a control device applied solely to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
11. Each ladle metallurgy operation at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
12. Each roof monitor at an existing BOPF shop.	a. Maintaining the opacity of secondary emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g),	Compliance with Standards and Maintenance	Yes.	

(h)(2)(ii)-(h)(9)	Requirements.		
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies methods and procedures for determining compliance with opacity emission and operating limits
§63.6(i)	Extension of Compliance with Emission Standards.	Yes.	
§ 63.6(j).	Exemption from compliance with Emission Standards	Yes.	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-(3), (b), (c)(1)-(3), (c)(4)(i-(ii), (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-(ii), (c) (5)-(6), (d), and (e) apply only to COMS.
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	Data Reduction	No	Subpart FFFFF specifies data reduction requirements.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS.
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	Subpart FFFFF specifies reporting requirements
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

SECTION D.9 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Number 2 Q-BOP Shop

(a) Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included: two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115 that discharges through NS614. The uncontrolled emissions exhaust through roof monitor NS6631.

(b) Q-Basic Oxygen Process (BOP) vessels, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, with a maximum capacity of 250 tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

(c) Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans exhausting to Stacks NS6124 and NS6125.

(d) Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627and NS6628 recycling captured material back to the process; One (1) North Flux Handling Baghouse at116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.

(e) Three (3) Ladle Metallurgical Facilities, LMF1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust Baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling Baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling Baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

(f) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Carbon monoxide and other combustible gas emissions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: Number 2 Q-BOP Shop (continued):

(g) One (1) Slag Conditioning Station servicing the RH Vacuum Degasser, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.

(1) PM_{10} emissions from the station are controlled by a baghouse exhausting through Stacks S-1 through S-6 and recycling captured material back to the process.

(2) PM_{10} emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the RH Vacuum Degasser Slag Conditioning Baghouse NS3207, exhausting through Stack NS6636.

(h) One (1) Daytank Lime Silo at the lime dumping station, identified as NSDS0250 constructed in 1971. Emissions are controlled by the Daytank Lime Silo baghouse NS3106, exhausting through the stack, NS6629.

(i) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 800 tons per hour combined. Lines A and B were constructed in1986. Line C was constructed in 1991. Emissions from the continuous casters go to the Roof Monitor NC6635.

(j) Fourteen (14) natural gas fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions go through Roof Monitor NS6633.

(k) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions go through Roof Monitor NS6631.

(l) Two (2) Steel Slag Skimming Stations, consisting of slag skimmers, identified as NSS10292 and NSS20287. Both were constructed in 1973. Emissions go through Roof Monitor NS6633.

(m) One (1) Slingot Station, identified as NSST0290, constructed in 1986. Emissions go through Roof Monitor NS6634.

(n) Eight (8) natural gas fired Tundish Preheaters located at the No. 2 Caster, with a heat input capacity of 6 MMBtu per hour each. Emissions go through Roof Monitor NC6635.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.9.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected sources, No.2 QBOP Shop, including the Q-BOP Furnace, and shop ancillary operations (hot metal mixers, hot metal desulfurization, slag skimming, ladle metallurgy, and roof monitoring, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF.

D.9.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the Number 2 Q-BOP Shop operations shall comply with the following:

(a) The PM_{10} emissions from the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Baghouses discharge NS6144 shall not exceed to 0.007 grains per dry standard cubic foot of exhaust air and 13.0 pounds per hour.

(b) The PM_{10} emissions from the Number 2 Q-BOP Secondary Emissions Baghouse stack NS6123 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 27.0 pounds per hour.

(c) The PM_{10} emissions from the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 shall not exceed 0.0153 grains per dry standard cubic foot of exhaust air and a total of 44.40 pounds per hour.

(d) The PM_{10} emissions from the Number 2 Q-BOP North Flux Handling System Baghouse stack NS6626 shall not exceed to 0.0070 grains per dry standard cubic foot of exhaust air and 1.80 pounds per hour.

(e) The emissions from the Number 2 Q-BOP South Flux Handling System Baghouse stack NS6625, shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 1.80 pounds per hour.

(f) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 1 Hot Fume Exhaust Baghouse Stack NS6146 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.1 pounds per hour.

(g) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 2 Hot Fume Exhaust Baghouse Stack NS6147 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.1 pounds per hour.

(h) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 3 Hot Fume Exhaust and Material Handling Baghouse Stack NS6148 shall not exceed 0 .0070 grains per dry standard cubic foot of exhaust air and 2.70 pounds per hour.

(i) The PM_{10} emissions from the Number 2 Q-BOP LMF Numbers 1 and 2 Material Handling Baghouse Stack NS6055, shall not exceed 0 .007 grains per dry standard cubic foot of exhaust air and 3.83 pounds per hour.

(j) The PM_{10} emissions from the Number 2 Q-BOP RH Vacuum Degasser Slag Conditioning Baghouse stacks S-1 through S-6 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.49 pounds per hour.

(k) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving".

D.9.3 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the particulate emissions from the roof monitors NS6631, NS6632, NS6633 and NS6634 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

D.9.4 Lake County Opacity Limitations [326 IAC 6.8-3-4]

Pursuant to 326 IAC 6.8-3-4 the visible emissions from the Number 2 Q-BOP Shop operations shall be limited as follows:

(a) Opacity from the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Stations Baghouse stack NS6144 shall not exceed five percent (5%) for any three (3) minute average.

(b) Opacity from the Number 2 Q-BOP Gas Cleaning system stacks NS6124 and NS6125 shall not exceed twenty percent (20%) for any six (6) minute average.

(c) Opacity from the Number 2 Q-BOP Roof Monitor NS 6632 shall not exceed twenty percent (20%) for any three (3) minute average.

(d) Opacity from the Number 2 Q-BOP North and South Flux Handling System Baghouse stacks NS6626 and NS6625, (previously known as the flux handling line baghouse shall not exceed five percent (5%) for any three (3) minute average.

(e) Opacity from the Number 2 Q-BOP Secondary Baghouse stack NS6123 shall not exceed five percent (5%) for any three (3) minute average.

(f) Opacity from the Number 2 Q-BOP LMF No.1 Hot Fume Exhaust Baghouse stack NS6146 shall not exceed five percent (5%) for any three (3) minute average.

(g) Opacity from the Number 2 Q-BOP LMF No.2 Hot Fume Exhaust Baghouse stack NS6147 shall not exceed five percent (5%) for any, three (3) minute average.

D.9.5 Sulfur Dioxide (SO_2) Limitations [326 IC 7-4.1-20(c)(3)]

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

D.9.6 Sulfur Dioxide (SO_2 Limitations – Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, the Permittee shall comply with the following:

(1) The SO_2 emissions from the Hot Metal Transfer and Desulfurization Stations baghouse as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, as applicable.

(2) The SO_2 emissions from the Hot Metal Transfer and Desulfurization Stations Baghouse as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(L)and (b)(10), the SO_2 emissions from the No. 2 QBOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

D.9.7 Carbon Monoxide (CO) Limitations 326 IAC 9-1-2

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the Number 2 Q-BOP furnace waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

D.9.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.9.9 Particulate Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.2, the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Stations Baghouse discharge using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.2, the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(c) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.2 the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Secondary Emissions Baghouse Stack NS6123, using the appropriate methods to measure PM_{10} as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.9.10 Sulfur Dioxide (SO_2) Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 , within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform SO_2 emission testing on the No. 2 QBOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse discharge during hot metal transfer, hot metal desulfurization, reagent injection and hot metal skimming operations, utilizing the test protocol submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to show compliance with condition D.9.7(a). This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform SO_2 emission testing on the No. 2 QBOP Shop Hot Metal Transfer and desulfurization station baghouse discharge during reagent injection operations only utilizing a test method approved by the Commissioner to show compliance with condition D.9.6(b) during the desulfurization reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, demonstration of compliance by performance testing per D.9.10(b) above shall not fulfill the compliance demonstration requirement for D.9.10(a).

D.9.11 Particulate Matter Control [326 IAC 2-7-6(6)]

(a) Except as otherwise provided by statute, rule or this permit, the control devices listed below shall be in operation for particulate emissions control at all times the associated operations at the No. 2 Q-BOP Shop are in operation. The control devices are as follows:

(1) Hot Metal Transfer and Desulfurization Baghouse NS3115

(2) No. 2 QBOP Secondary Emissions Baghouse NS3124

(3) The two (2) No. 2 QBOP Gas Cleaning Systems NS3125 and NS3126

(4) No.1 LMF Hot Fume Exhaust Baghouse NS3135

(5) No. 2 LMF Hot Fume Exhaust Baghouse NS3136

(6) No. 1 and No. 2 LMF Material Handling Baghouse NS3052

(7) No. 3 LMF Hot Fume and Material Handling Baghouse NS3137

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.9.12 Carbon Monoxide (CO) Control

The R-H Vacuum Degasser Flare NS6145 shall be in operation at all times the R-H Vacuum Degasser is in operation to control the CO emissions.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.9.13 Visible Emissions Notations

(a) Visible emission notations of the Desulfurization Stations baghouse stack NS6144, Secondary Baghouse stack NS6123 and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125, shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

D.9.14 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the No. 2 QBOP Secondary Emissions baghouse NS3124 used in conjunction with the secondary emissions from the three (3) Q-BOP vessels T, W, and Y, at least once per day, when any of the three (3) Q-BOP vessels T, W, and Y, is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2 and 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(b) The Permittee shall record the pressure drop across the venture scrubber throats and scrubber total supply water flow rate of the No. 2 Q-BOP gas cleaning Systems scrubbers NS3125 and NS3126 used in conjunction with the 3 No.2 Q-BOP vessels at least once per day when either the three (3) Q-BOP vessels T, W, and Y units is operating. For each scrubber system, when for any one reading across the venture scrubber throats is outside the normal range of 50 to 70 inches of water or the scrubber supply water flow rate is outside the normal range of 2,000 and 4,500 gallons per minute (gpm) or ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(c) The Permittee shall record the pressure drop across the Hot Metal Desulfurization baghouse NS3115 used in conjunction with the No, 2 Q-BOP Hot Metal Desulfurization stations and mixers, at least once per day when the desulfurization stations and mixers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit

(d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

(e) The instrument used for determining the pressure and flow rate shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.9.15 Scrubber Failure Detection

In the event that a scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.9.16 General Record Keeping Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and to document compliance with Condition D.9.6, the Permittee shall keep records of the monthly hot metal throughput for the No. 1 and No. 2 Hot Metal Desulfurization Stations.

(b) To document compliance with Condition D.9.13 the Permittee shall maintain the records of once per day visible emission notations of the Hot Metal Transfer and Desulfurization Stations baghouse discharge NS6144, No. 2 QBOP Secondary Emissions Baghouse Stack NS6123, and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125 exhausts.

(c) To document compliance with Condition D.9.14, the Permittee shall maintain records of the once per day of the pressure drop of the No. 2 QBOP secondary emissions baghouse NS3124, pressure drop across the venturi scrubber throats and supply water flow rate of the No. 2 QBOP Gas cleaning systems scrubbers NS3125 and NS3126, and pressure drop of the Hot Metal Transfer and Desulfurization baghouse NS3115, during normal operation.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing [40 CFR 63, Subpart FFFFF]

D.9.17 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25

tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by the dates specified in paragraphs (a)(1) and (2) of this section.

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart,

you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the hourly average opacity of emissions exiting the control device at or below 10 percent.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected

operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and

opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart at the frequencies specified in paragraphs (b) through (d) of this section.

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the

average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A

to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter, record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.

(1) Using the CPMS required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(c) You may change the operating limits for a capture system or venturi scrubber, if you meet the requirements in paragraphs (c) (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in

Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b).

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, as applicable, detailed descriptions of the corrective action procedures for baghouses and or control devices;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel production cycle) according to the requirements in §63.7832.

(b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through **(**8)of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all

required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) or (2) of this section as applicable, and paragraphs (c)(3) and (4) of this section:

(1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by meeting the requirements of paragraphs (d)(1) through (4) of this section:

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and

recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a baghouse equipped with a bag leak detection system or COMS according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* Except as provided in §63.7833(g),you must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup,

shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs

(b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown

under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical

properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following

9. Each BOPF at a new or existing shop.	a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\ ,\3\; and b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle for an existing BOPF shop \2\, \3\ or 0.01 gr/dscf during the steel production cycle for a new BOPF shop; \3\ and c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop \2\ or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitoring at an existing BOPF shop.	You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).

\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.
\3\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop; b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. The average concentration of particulate matter from a control device applied solely to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop	The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitor at an existing BOPF shop.	The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below 0.03 gr/dscf; and b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. Maintaining emissions of particulate matter from a control device applied solely to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
11. Each ladle metallurgy operation at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.
12. Each roof monitor at an existing BOPF shop.	a. Maintaining the opacity of secondary emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and b. Conducting subsequent performance tests at the frequencies specified in § 63.7821.

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g),	Compliance with Standards and Maintenance	Yes.	

(h)(2)(ii)-(h)(9)	Requirements.		
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies methods and procedures for determining compliance with opacity emission and operating limits
§63.6(i)	Extension of Compliance with Emission Standards.	Yes.	
§ 63.6(j).	Exemption from compliance with Emission Standards	Yes.	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-(3), (b), (c)(1)-(3), (c)(4)(i-(ii), (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-(ii), (c) (5)-(6), (d), and (e) apply only to COMS.
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	Data Reduction	No	Subpart FFFFF specifies data reduction requirements.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS.
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	Subpart FFFFF specifies reporting requirements
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

SECTION D.10 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) Hot Rolling Mill

(a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas and coke oven gas with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.

(b) Two (2) waste heat boilers Nos. 1 and 2 , identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input capacity from fuel from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas and coke oven gas. Emissions exhaust through the waste heat boiler stacks HB6504 and HB6505.

(c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, 5 roughing mills and a 7-stand finishing mill with fugitive emissions through a Roof Monitor RM6630

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.10.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources, Waste Heat Boilers Nos. 1 and 2 as designated by 40 CFR 63.7506(b). The Permittee must comply with the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

D.10.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: Waste Heat Boilers Nos. 1 and 2 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

D.10.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

(a) Pursuant to Significant Source Modification 089-19709-00121, issued May 2, 2005 and 326 IAC 6.8-2-38, PM_{10} emissions from the 84" Hot Strip Mill Reheat Furnaces Nos. 1, 2, 3 and 4 Stacks RM6500, RM6501, RM6502 and RM 6503 shall not exceed 0.017 pound per MMBtu of heat input and a total of 40.80 pounds per hour.

(b) Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boilers Nos.1 and 2 shall comply with the following:

(1) The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 1 Stack HB6504 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

(2) The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 2 Stack HB6505 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

(c) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.10.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, SO_2 emissions from the Reheat Furnace Nos.1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 and RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 shall comply with the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(E) and (F), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit Operating Scenarios		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
During periods when Reheat Furnace Nos. 1, 2, 3 and 4 are not combusting coke oven gas	Waste Heat Boiler Nos. 1 or 2	1.270	287.0
	Remaining Waste Heat Boiler	0.704	159.0
Reheat Furnace Nos. 1, 2, 3 and 4 during periods when combusting coke oven gas.	When four (4) furnaces are operating	0.256	615.0
	When three (3) furnaces are operating	0.342	615.0
	When two (2) furnaces are operating	0.513	615.0
	When one (1) furnace is operating	1.025	615.0

(b) Pursuant to 326 IAC 7-4.1-20(b)(6)(A) and (B), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Waste Heat Boiler Nos. 1 and 2	NA	0.260	58.8 each
Continuous Reheat Furnace Nos. 1, 2, 3 and 4	When four (4) furnaces are operating	0.182	436.5 total
	When three (3) furnaces are operating	0.243	436.5 total
	When two (2) furnaces are operating	0.354	436.5 total
	When one (1) furnace is operating	0.728	436.5 total

D.10.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any associated control devices.

Compliance Determination Requirements

D.10.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.1.1, the Permittee shall perform PM_{10} testing on one of the Nos. 1, 2, 3 and 4 Continuous Reheat Furnace stacks RM6500, RM6501, RM6502 or RM6503, using methods as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance

demonstration with no stack being tested in successive tests. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.10.1, the Permittee shall perform PM_{10} testing on one of the 84" Hot Strip Mill Waste Heat Boilers No. 1 Stack HB6504 and No. 2 Stack HB6505 using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.10.7 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with conditions D.10.2, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol in Section C - Sulfur Fuel Sampling and Analysis of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.10.8 Record Keeping Requirements

(a) To document compliance with Condition D.10.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

D.10.9 Reporting Requirements

A quarterly summary report to document compliance with condition D.10.2 shall be submitted to IDEM accordance with Section C – Sulfur Dioxide SO_2 Reporting Requirements (Entire Source). The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.11 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Two Continuous Pickle Lines

(a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.

(b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.11.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1, apply to the emission units described in this section except when otherwise specified in 40 CFR Part 63, Subpart CCC.

D.11.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants [40 CFR Part 63, Subpart CCC][40 CFR 63.1157]

Pursuant to 40 CFR Part 63, Subpart CCC, the 80-inch and 84-inch Hydrochloric Acid Pickling lines shall comply with the following requirements:

The Permittee shall not cause or allow to be discharged into the atmosphere from the affected pickling lines:

(a) Any gases that contain HCl in a concentration in excess of 18 ppmv; or

(b) HCL at a mass emission rate that corresponds to a collection efficiency of less than 97 percent.

D.11.3 National Emission Standard for Hazardous Air Pollutants (NESHAP) Maintenance Requirements [40 CFR 63.1160]

The Permittee shall comply with the operation and maintenance requirements of 40 CFR Part 63.6(e) (Subpart A, General Provisions) at the 80-inch and 84-inch Hydrochloric Acid Pickling lines. Additionally, the Permittee shall prepare an operation and maintenance plan for each emission control device to be implemented no later than the compliance date. The plan shall be incorporated by reference into the source's Part 70 Permit. All such plans must be consistent with good maintenance practices and, for a scrubber emission control device, must at a minimum:

(a) Require monitoring and recording the pressure drop across the scrubber once per shift while the scrubber is operating in order to identify changes that may indicate a need for maintenance;

(b) Require the manufacturer's recommended maintenance at the recommended intervals on fresh solvent pumps, recirculating pumps, discharge pumps, and other liquid pumps, in addition to exhaust system and scrubber fans and motors associated with those pumps and fans;

(c) Require cleaning of the scrubber internals and mist eliminators at intervals sufficient to prevent buildup of solids or other fouling;

(d) Require an inspection of each scrubber at intervals of no less than 3 months with;

(1) Cleaning or replacement of any plugged spray nozzles or other liquid delivery devices;

(2) Repair or replacement of missing, misaligned, or damaged baffles, trays, or other internal components;

(3) Repair or replacement of droplet eliminator elements as needed;

(4) Repair or replacement of heat exchanger elements used to control the temperature of fluids entering or leaving the scrubber; and

(5) Adjustment of damper settings for consistency with the required air flow.

(e) If the scrubber is not equipped with a view port or access hatch allowing visual inspection, alternate means of inspection approved by the Administrator may be used.

(f) The Permittee shall initiate procedures for corrective action within 1 working day of detection of an operating problem and complete all corrective actions as soon as practicable. Procedures to be initiated are the applicable actions that are specified in the maintenance plan. Failure to initiate or provide appropriate repair, replacement, or other corrective action is a violation of the maintenance requirement.

(g) The Permittee shall maintain a record of each inspection, including each item identified in (d) above, that is signed by the responsible maintenance official and that shows the date of each inspection, the problem identified, a description of the repair, replacement, or other corrective action taken, and the date of the repair, replacement, or other corrective action taken.

D.11.4 National Emission Standards for Hazardous Air Pollutants (NESHAP) Operational and Equipment Standards [40 CFR 63.1159, Subpart CCC] Hydrochloric acid storage vessels.

Pursuant to 40 CFR 63.1159, Subpart CCC, the Permittee of an affected vessel shall provide and operate, except during loading and unloading of acid, a closed-vent system for each vessel. Loading and unloading shall be conducted either through enclosed lines or each point where the acid is exposed to the atmosphere shall be equipped with a local fume capture system, ventilated through an air pollution control device.

D.11.5 Particulate (PM) Limitation [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the pickle lines shall not discharge to the atmosphere any gases which contain particulate in excess of 0.03 grains per dry standard cubic feet.

Compliance Determination Requirements

D.11.6 Testing Requirements [40 CFR 63.1161, Subpart CCC]

(a) The Permittee shall conduct a performance test for each process or emission control device to determine and demonstrate compliance with the applicable emission limitation according to the requirements of 40 CFR 63.7 (Subpart A, General Provisions). These tests shall meet the following minimum requirements:

(1) Following approval of the site-specific test plan, the Permittee shall conduct a performance test for each process or control device to either measure simultaneously the mass flows of HCl at the inlet and the outlet of the control device (to determine compliance with the applicable collection efficiency

standard) or measure the concentration of HCL in gases exiting the process or the emission control device (to determine compliance with the applicable emission concentration standards).

(2) Compliance with the applicable concentration standard or collection efficiency standard shall be determined by the average of three consecutive runs or by the average of any three of four consecutive runs. Each run shall be conducted under conditions representative of normal process operations.

(3) Compliance is achieved if either the average collection efficiency as determined by the HCL mass flows at the control device inlet and outlet is greater than or equal to the applicable collection efficiency standard, or the average measured concentration of HCL exiting the process or the emission control device is less than or equal to the applicable emission concentration standard.

(b) During the performance test for each emission control device, the Permittee using a wet scrubber to achieve compliance shall establish site-specific operating parameter values for the minimum scrubber makeup water flow rate and, for scrubbers that operate with recirculation the minimum recirculation water flow rate. During the emission test, each operating parameter must be monitored continuously and recorded with sufficient frequency to establish a representative average value for that parameter, but no less frequently than once every 15 minutes. The Permittee shall determine the operating parameter monitoring values as in the averages of the values recorded during any of the runs for which results are used to establish the emission concentration or collection efficiency per 40 CFR 63.1161 (a)(2). A Permittee may conduct multiple performance tests to establish alternative compliant operating parameter values. Also, a Permittee may reestablish compliant operating parameter values as part of any performance test that is conducted subsequent to the initial test or tests.

(c) Conduct performance tests to measure the HCl flows at the control device inlet and outlet or the concentration of HCl exiting the control device according to the procedures described in 40 CFR 63.1161. Performance tests shall be conducted according to an alternative schedule approved by IDEM, OAQ every two and one half (2 ½) years or twice per Part 70 Operating Permit term. If any performance test shows that the HCl emission limitation is being exceeded, the Permittee is in violation of the emission limit.

(d) Pursuant to 40 CFR 63.1163(d), the Permittee of an affected source shall notify IDEM, OAQ in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin, to allow IDEM, OAQ to review and approve the site-specific test plan required under 40 CFR 63.7(c), and, if requested by IDEM, OAQ, to have an observer present during the test.

(e) The following test methods from Appendix A of 40 CFR 60 shall be used to determine compliance under 40 CFR 63.1157(a);

(1) Method 1, to determine the number and location of sampling points, with the exception that no sampling traverse point shall be within one inch of the stack or duct wall;

(2) Method 2, to determine gas velocity and volumetric flow rate;

(3) Method 3, to determine the molecular weight of the stack gas;

(4) Method 4, to determine the moisture content of the stack gas; and

(5) Method 26A, “Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources – Isokinetic Method,” to determine the HCl mass flows at the inlet and outlet of a control device or the concentration of HCl discharged to the

atmosphere. If compliance with a collection efficiency standard is being demonstrated, inlet and outlet measurements shall be performed simultaneously. The minimum sampling time for each run shall be 60 minutes and the minimum sample volume 0.85 dry standard cubic meters (dscm) [30 dry standard cubic feet (dscf)]. The concentration of HCl shall be calculated for each run as follows: $C_{HCL(ppmv)} = 0.659\ C_{HCL(mg/dscm)}$, where $C_{(ppmv)}$ is concentration in ppmv and $C_{(mg/dscm)}$ is concentration in milligrams per dry standard cubic meter as calculated by the procedure given in Method 26A.

(6) The Permittee may use equivalent alternative measurement methods approved by U.S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.11.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) Monitoring Requirements [40 CFR 63.1162, Subpart CCC]

The Permittee shall:

(a) In addition to conducting performance tests, if a wet scrubber is used as the emission control device, install, operate and maintain systems for the measurement and recording of the scrubber makeup water flow rate and, if required, recirculation water flow rate. These flow rates must be monitored continuously and recorded at least once per shift while the scrubber is operating. Operation of the wet scrubber with excursions of scrubber makeup water flow rate and recirculation water flow rate less than the minimum values established during the performance test or tests will require initiation of corrective action as specified by the maintenance requirements in 40 CFR Part 63.1160(b)(2).

(b) Failure to record each of the operating parameters in 40 CFR Part 63.1162(a)(2) is a violation of the monitoring requirements of 40 CFR Part 63, Subpart CCC.

(c) Each monitoring device shall be certified by the manufacturer to be accurate to within 5 percent and shall be calibrated in accordance with the manufacturer's instructions but not less frequently than once per year.

(d) The Permittee may develop and implement alternative monitoring requirements subject to approval by U.S. EPA. .

D.11.8 Monitoring Requirements [40 CFR 63.1162]

Pursuant to 40 CFR 63.1162, the Permittee of an affected hydrochloric acid storage vessel shall inspect each vessel semiannually to determine that the closed vent system and either the air pollution control device or the enclosed loading and unloading line, whichever is applicable, are installed and operating when required.

Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.11.9 Record Keeping Requirements [40 CFR Part 63.1165]

(a) To document compliance with Conditions D.11.2 and D.11.3, the Permittee shall maintain the following records pursuant to 40 CFR 63.1165:

(1) The Permittee as required by 40 CFR 63.10(b)(2) (Subpart A, General Provisions), shall maintain general records for 5 years from the date of each record of:

(A) The occurrence and duration of each startup, shutdown, or malfunction of operation;

(B) The occurrence and duration of each malfunction of the air pollution control equipment;

(C) All maintenance performed on the air pollution control equipment;

(D) Actions taken during periods of startup, shutdown, and malfunction and the dates of such actions when these actions are different from the procedures specified in the startup, shutdown, and malfunction plan;

(E) All information necessary to demonstrate conformance with the startup shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction are consistent with the procedures specified in such plan. This information can be recorded in a checklist or similar form. (See 40 CFR 63.10(b)(2)(v))

(F) All required measurements needed to demonstrate compliance with the standard and to support data that the source is required to report, including but not limited to, performance test measurements (including initial and any subsequent performance tests) and measurements as may be necessary to determine the conditions of the initial test or subsequent tests.

(G) All results of initial or subsequent performance tests;

(H) If the Permittee has been granted a waiver from record keeping or reporting requirements under 40 CFR Part 63.10(f), any information demonstrating whether a source is meeting the requirements for a waiver of record keeping or reporting requirements;

(I) If the Permittee has been granted a waiver from the initial performance test under 40 CFR Part 63.7(h), a copy of the full request and approval or disapproval;

(J) All documentation supporting initial notifications and notifications of compliance status required by 40 CFR Part 63.9; and

(K) Records of any applicability determination, including supporting analyses.

(2) In addition to the general records required by 40 CFR 63.1165(a), the Permittee shall maintain records for 5 years from the date of each record of:

(A) Scrubber makeup water flow rate and recirculation water flow rate if a wet scrubber is used;

(B) Calibration and manufacturer certification that monitoring devices are accurate to within 5 percent;

(C) Each maintenance inspection and repair, replacement, or other corrective action; and

(3) The Permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by IDEM, OAQ for the life of the affected source or until the source is no longer subject to these provisions 40 CFR Part 63 Subpart CCC. In addition, if the operation and maintenance plan is revised, the Permittee shall keep previous (i.e., superseded) versions of the plan on record to be made available for inspection by IDEM, OAQ for a period of 5 years after each revision to the plan.

(b) General records and 40 CFR Part 63, Subpart CCC records, for the most recent 2 years of operation must be maintained on site. Records for the 3 previous years may be maintained off site.

(c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements.

D.11.10 Reporting Requirements [40 CFR 63.1164]

(a) Pursuant to 40 CFR 63.10(d)(2), the Permittee of an affected source shall report the results of any performance test as part of the notification of compliance status required in 40 CFR 63.1163.

(b) The Permittee of an affected source who is required to submit progress reports under 40 CFR 63.6(i), shall submit such reports to IDEM, OAQ by the dates specified in the written extension of compliance.

(c) Pursuant to 40 CFR 63.6(e) the Permittee of an affected source is required to operate and maintain each affected emission source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the level required by the standard at all time, including during any period of startup, shutdown, or malfunction. Malfunctions must be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan.

(1) Pursuant to 40 CFR 63.6(e)(3), the Permittee shall develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, or malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard.

(2) Pursuant to 40 CFR 63.10(d)(5)(I) if actions taken by a Permittee during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the startup, shutdown, and malfunction plan, the Permittee shall state such information in a semiannual report. The report, to be certified by the Permittee or other responsible official, shall be submitted semiannually and delivered or postmarked by the 30th day following the end of each calendar half; and

(3) Any time an action taken by a Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, the Permittee shall comply with all requirements of 40 CFR 63.10(d)(5)(ii).

(d) All reports shall be submitted in accordance with Section C - General Reporting Requirements.

(e) The reports submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.12 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: The Sheet Products Division

(a) North Sheet Mill

(1) One (1) 5-Stand Cold Reduction Mill, identified as H5M50637, constructed in 1964, with a maximum capacity of 400 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.

(2) Twenty-six (26) 4-Stack Box Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 12 MMBtu per hour each. These furnaces are direct fired with emissions exhausting through vent pipes HT6530 through HT6555.

(3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of 250 tons per hour, with fugitive emissions.

(4) One (1) 80-inch Recoil Line, constructed in1964, with a maximum capacity 120 tons per hour, with fugitive emissions.

(b) South Sheet Mill

(1) Seventeen (17) 8-Stack A Box Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from these furnaces exhaust through the Roof Monitor HX6003.

(2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour, with fugitive emissions through Roof Monitor H26004.

(3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace identified as H6F10527 with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

(4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods.

(5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, with fugitive emissions.

(6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, with fugitive emissions

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: The Sheet Products Division (continued):

(c) Electro-galvanizing Line (EGL)

(1) One (1) Electro-galvanizing Line (EGL), with one HCl pickle tank, No.1 Pickle tank, identified as HET20685, a cleaner section, a plating section and associated scrubber, with a maximum capacity of 60.5 tons per hour. Fumes from the Pickle Section are controlled by a fume scrubber HE3583 exhausting through stack HE6563. The single sided process for this coating line was constructed in 1977 and was modified in 1993 to a double sided process for coating.

(2) One (1) natural gas fired Boiler No. 1 in the EGL Boiler House, identified as HBB10675, constructed in 1978 and modified in 2001, with a heat input capacity of 39.147 MMBtu per hour, exhausting through stack HB6559.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.12.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the No. 1 Boiler in the EGL Boiler House except when otherwise specified in 40 CFR Part 60, Subpart Dc.

D.12.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the EGL Boiler House shall not exceed 0.0033 pounds per MMBtu of heat input and a total of 0.13 pound per hour.

D.12.3 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the particulate emissions from the North Sheet Mill: 5-Stand Cold Reduction Mill Stack H56527 and the South Sheet Mill: No. 6 East Galvanize Line Stack H66516 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

D.12.4 Nitrogen Dioxide (NOx) Emissions Offset Limitations [326 IAC 2-3]

Pursuant to CP 089-8606-00121, issued October 20, 1997, the natural gas usage in the two (2) hydrogen atmosphere batch annealing furnaces shall not exceed 37.2 million cubic feet (MMCF) per 12 consecutive month period with compliance demonstrated at the end of each month. This production limitation is equivalent to NOx emissions of 2.64 tons per 12 consecutive month period with compliance demonstrated at the end of each month. Therefore, the Emission Offset rule, 326 IAC 2-3, does not apply.

D.12.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3)]

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

D.12.6 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source: EGL Boiler, as designated by 40 CFR 63.7506(b). The Permittee must comply with the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

D.12.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: EGL Boiler is subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

D.12.8 Preventative Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit is required for EGL Boiler House Boiler No.1.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.12.9 Record Keeping Requirements

(a) Pursuant to Minor Source Modification 089-14424-00121, issued August 2, 2001 (modified by MSM 089-15694-00121, issued August 21, 2002), and 40 CFR 60.40c the Permittee shall record and maintain monthly records of the amounts of fuel combusted for the one (1) 39.147 million British thermal units per hour (MMBtu/hr) natural gas fired boiler, identified as EGL-1 boiler.

(b) Pursuant to Minor Source Modification 089-8606-00121, issued October 20, 1997 and to document compliance with Condition D.12.4 the Permittee shall maintain monthly records of the natural gas usage in the two (2) hydrogen atmosphere batch annealing furnaces.

(c) All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

D.12.10 Reporting Requirements

(a) Pursuant to Minor Source Modification 089-8606-00121, issued October 20, 1997 and to document compliance with Condition D.12.4 the Permittee shall submit within thirty (30) days of the end of each calendar quarter, the hydrogen atmosphere batch annealing furnaces monthly natural gas usage, using the reporting form located at the end of this permit or its equivalent.

(b) All reports shall be submitted in accordance with Section C - General Reporting Requirements of this permit.

(c) The reports submitted by the Permittee do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.13 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: The Tin Division is comprised of the following:

(a) One (1) 6-Stand Cold Reduction Mill, identified as TRM00709, constructed in 1967, with a maximum capacity of 150 tons per hour. Emissions are controlled by a mist eliminator TR3600, exhausting to stack TR6575.

(b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. Fumes are controlled by a fume scrubber exhausting to a stack.

(c) Two (2) Annealing Lines, No. 1 and No. 2, each containing an annealing furnace, identified as T1AF0794 and T2AF0799, No.1 constructed in 1950 and No. 2 constructed in 1959, with a maximum heat input capacities of 32 and 35 MMBtu per hour, respectively. Emissions exhaust to stacks T16609 and T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes collected in a fume scrubber exhausting through a stack.

(d) Five (5) 4-Stack A Box Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

(e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, with fugitive emissions. This unit has a dust filter that exhausts inside the building.

(f) One (1) Double Reduction Mill with two (2) mill stands, identified as TDMO0742, constructed in 1963, with a maximum capacity of 75 tons per hour. Emissions are controlled by a mist eliminator D3603, exhausting to stack TD6595.

(g) One (1) No.1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The chemical treatment rinse section, TFR00753 exhaust through stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661.

(h) One (1) No. 5 Electrolytic Tinning Line 5 (ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with fugitive emissions through Roof Monitor T56071.

(i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, with fugitive emissions through Roof Monitor T56071.

(j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, with fugitive emissions through roof monitor.

(k) One (1) Tin Mill Recoil and inspection Line, constructed in 1967, with a maximum capacity of 14.8 tons per hour.

(l) One (1) 45” Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.13.1 Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), the particulate emissions shall not exceed three-hundredths (0.03) grain per dry standard cubic feet (gr/dscf) from the following:

(a) 6-Stand Cold Reduction Mill Stack TR6575,

(b) One (1) Double Reduction Mill Stack TD6595, and

(c) No. 1 Tin Free Steel Line Chemical Treatment Rinse Stack TF6597.

D.13.2 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3)]

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.13.3 Record Keeping Requirements

(a) In order to demonstrate compliance with conditions D.13.1 and D.13.2, the Permittee shall maintain records of the natural gas usage of the furnaces.

(b) All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

SECTION D.14 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) Boiler House No. 4 , comprised of the following:

(a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas and fuel oil, with a maximum heat input of 500 MMBtu per hour each, exhausting through Stacks O46268 and O46269, respectively.

(b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.14.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources, No. 4 Boiler House Boilers Nos. 1, 2 and 3, as designated by 40 CFR 63.7506(b). The Permittee must comply with the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

D.14.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

(a) Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: No. 4 Boiler House Boilers No. 1, 2 and 3 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

(b) Pursuant to 40 CFR 63.7506(b), the existing limited use liquid fueled subcategory: No. 4 Boiler House Boilers No. 1 and 2 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

D.14.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall comply with the following:

(a) The PM_{10} emissions from the Number 4 Boiler House Boilers, when one or two boilers are operating shall not exceed 0.054 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.

(b) The PM_{10} emissions from the Number 4 Boiler House Boilers, when three boilers are operating shall not exceed 0.036 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.

(c) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.14.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, the SO_2 emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall not exceed the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(B), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit Operating Scenarios		Emission Limit Lbs/MMBtu	Emission Limit Lb/hr
During periods when No.14 Blast Furnace Stoves are combusting blast furnace gas	When three (3) boilers are operating:	0.115	172.5 total
	When two (2) boilers are operating:	0.173	172.5 total
	When one (1) boiler is operating:	0.345	172.5 total
During periods when No.14 Blast Furnace Stoves are not combusting blast furnace gas and the Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are combusting coke oven gas :	When three (3) boilers are operating:	0.200	300.0 total
	When two (2) boilers are operating:	0.300	300.0 total
	When one (1) boiler is operating:	0.600	300.0 total
During periods when No.14 Blast Furnace Stoves are not combusting blast furnace gas and the Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are not combusting coke oven gas :	When three (3) boilers are operating:	0.195	293.0 total
	When two (2) boilers are operating:	0.293	293.0 total
	When one (1) boiler is operating:	0.586	293.0 total

(b) Pursuant to 326 IAC 7-4.1-20(b)(2), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios	Emission Limit Lbs/MMBtu	Emission Limit lb/hr
When three (3) boilers are operating:	0.353	529.0 total
When two (2) boilers are operating:	0.529	529.0 total
When one (1) boiler is operating	1.058	529.0 total

D.14.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.14.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.14.2, the Permittee shall perform PM_{10} testing on the No. 4 Boiler House Boilers when all three boilers are operating, using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every two and one half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.14.7 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with conditions D.14.3, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol in Section C - Sulfur Fuel Sampling and Analysis of this permit.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.14.8 Visible Emission Notations

When Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil and natural gas or blast furnace gas

(a) Visible emission notations of the Boilers No. 1 stack O46268 and/or No. 2 stack O46269 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.14.9 Record Keeping Requirements

(a) To document compliance with Condition D.14.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(b) To document compliance with Conditions D.14.8, the Permittee shall maintain records of the once per day visible emission notations when Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil and natural gas or blast furnace gas.

(c) All records shall be maintained in accordance with Section C - General Record Keeping requirements, of this permit.

D.14.10 Reporting Requirements

A quarterly summary report to document compliance with conditions D.14.4 shall be submitted in accordance with Section C – Sulfur Dioxide Reporting Requirements (Entire Source) of this permit. This report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.14.11 Natural Gas Fired Boiler Certification

A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, for the Number 4 Boiler House Boilers Nos. 1, 2

and 3, five hundred (500) million British Thermal unit per hour (MMBtu/hr) natural gas fired boilers. This report shall be submitted in accordance with Section C- General Reporting Requirements of this permit. This report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.15 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) TurboBlower Boiler House (TBBH), comprised of the following:

(a) Three (3) Boilers, No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler, No. 4A, identified as OTB40465, constructed in 1990, with a maximum heat input of 244 MMBtu per hour when combusting natural gas. Emissions exhaust through Stack OT6274, with NOx emissions monitored by a Predictive Emissions Monitoring System (PEMS).

(c) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

(d) One (1) boiler, No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.15.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1] [40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources, TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6, as designated by 40 CFR 63.7506(b). The Permittee must comply with the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

D.15.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

(a) Pursuant to 40 CFR 63.7506(b) (1), the existing large gaseous fuel subcategory: TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 are subject only to the initial notification requirements in 40 CFR 63.9(b) (2).

(b) Pursuant to 40 CFR 63.7506(b) (2), the existing limited use liquid fueled subcategory: TurboBlower Boiler House Boilers Nos. 1, 2, 3 and 5 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

D.15.3 General Provisions Relating to New Source Performance Standards (NSPS) [326 IAC 12-1][40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, applies to the No. 6 Boiler except when otherwise specified in 40 CFR Part 60, Subpart D and applies to No. 4A boiler, except when otherwise specified in 40 CFR 60, Subpart Db.

D.15.4 New Source Performance Standards (NSPS) Particulate Limitations [326 IAC 12] [40 CFR 60, Subpart D]

Pursuant to Minor Source Modification 089-10160-00121, issued January 13, 2000, 326 IAC 12 and 40 CFR 60.40 through 60.49, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971), Particulate matter (PM) emissions from TBBH Boiler No. 6 shall not exceed the following:

(a) One-tenth (0.10) lb/MMBtu derived from fossil fuel combustion; and

(b) Twenty percent (20%) opacity except for one six-minute period per hour of not more than 27% opacity.

D.15.5 Lake County PM_{10} Emissions Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 Stacks OT6271, OT6272, OT6273, OT6274, OT6275 and OT6276 shall comply with the following:

(a) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when four boilers are operating, shall not exceed 0.037 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(b) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when three boilers are operating, shall not exceed 0.050 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(c) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when one or two boilers are operating, shall not exceed 0.074 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(d) The PM_{10} emissions from the TBBH Boiler No.4A stack OT6274 shall not exceed 0.012 pound per MMBtu of heat input each and 2.9 pounds per hour.

(e) The PM_{10} emissions from the TBBH Boiler No. 6 Stack OT6276, shall not exceed 0.039 pound per MMBtu of heat input and 27.80 pounds per hour.

(f) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.15.6 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, the SO_2 emissions from each of the TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 Stacks OT6271, OT6272, OT6273,OT6274, OT6275 and OT6276 shall not exceed the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20)(c)(3), sulfur dioxide limits are not specifically listed for Boiler No. 4A. In accordance with this rule, Boiler No, 4A shall burn natural gas only.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(A) and (b)(1)(B), the sulfur dioxide emissions from the No. 6 Boiler Stack shall not exceed 0.115 lbs/MMBtu and 81.7 lbs/hr.

(c) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(i), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are not combusting coke oven gas:

Emission Unit Operating Scenario		Emission Limit Lbs/MMBtu	Emission Limit lbs/hr
Jan – Apr	When four (4) boilers are operating	0.594	974.5 total
	When three (3) boilers are operating	0.792	974.5 total

	When two (2) boilers or less are operating	1.188	974.5 total
May – Oct	When four (4) boilers are operating	1.006	1650.0 total
	When three (3) boilers are operating	1.341	1650.0 total
	When two (2) boilers or less are operating	2.012	1650.0 total
Nov – Dec	When four (4) boilers are operating	0.384	630.0 total
	When three (3) boilers are operating	0.512	630.0 total
	When two (2) boilers or less are operating	0.768	630.0 total

(d) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(ii), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are combusting coke oven gas:

Emission Unit Operating Scenario		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Jan –Apr	When four (4) boilers are operating	0.625	1025.00 total
	When three(3) boilers are operating	0.833	1025.00 total
	When two (2) boilers or less are operating	1.250	1025.00 total
May – Oct	When four (4) boilers are operating	0.994	1630.0 total
	When three(3) boilers are operating	1.325	1630.0 total
	When two (2) boilers or less are operating	1.988	1630.0 total
Nov – Dec	When four (4) boilers are operating	0.351	575.0 total
	When three(3) boilers are operating	0.467	575.0 total
	When two (2) boilers or less are operating	0.701	575.0 total

(e) Pursuant to 326 IAC 7-4.1-20(b)(1)(A), the sulfur dioxide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
When four (4) boilers are operating	0.427	700.0 total
When three(3) boilers are operating	0.569	700.0 total

When two (2) boilers or less are operating	0.854	700.0 total

D.15.7 PSD Nitrogen Oxides (NO_x) Emission Offset Limitations [326 IAC 2-2] [326 IAC 2-3]

Pursuant to the Minor Source Modification 089-10160-00121 issued, January 13, 2000, 326 IAC 2-2 and 326 IAC 2-3, the NOx emissions for the TBBH Boiler No. 6 Stack OT6276 shall be limited to the following:

(a) Boiler No. 6 NOx emissions shall not exceed 0.14 pounds of NOx per MMBtu of heat input.

(b) Natural gas usage shall be limited to 1,059.7 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit will also preclude the Permittee from the requirement to install a continuous emissions monitor (CEM) for NOx.

(c) Blast furnace gas and natural gas shall be the only fuels combusted in TBBH Boiler No. 6, unless the Permittee receives prior approval from IDEM, OAQ to combust coke oven gas or fuel oil.

(d) These limitations will ensure that the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) do not apply.

D.15.8 Nitrogen Oxides (NO_x) Limitations [326 IAC 12][40 CFR Part 60, Subpart D and Subpart Db]

(a) Pursuant to CP-089-9568-00121, issued September 21, 1998, 40 CFR 60 Subpart Db, and 326 IAC 12 (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units), NO_x emissions from the TBBH Boiler No. 4A Stack OT6274 shall comply with the following:

(1) The NOx emissions shall not exceed 0.20 lb/MMBtu when the boiler is burning natural gas only. This is equivalent to 48.8 pounds per hour at a maximum heat input rate of 244 MMBtu per hour.

(2) The NOx emissions shall not exceed 0.50 lb/MMBtu when the boiler is burning coke oven gas alone. This is equivalent to 122 pounds per hour at a maximum heat input rate of 244 MMBtu per hour.

(b) Pursuant to Minor Source Modification 089-10160-00121, issued January 13, 2000, 326 IAC 12 and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction or modification is Commenced After August 17, 1971), NOx emissions from the Turboblower Boiler House (TBBH) Boiler No. 6 Stack OT6276 shall not exceed 0.20 pound per MMBtu of heat input, when the boiler is burning natural gas only.

D.15.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.15.10 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boilers Nos. 1, 2, 3 and 5 when all four boilers are operating, using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½)

years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boiler No. 4A when burning natural gas alone and when burning coke oven gas alone, using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(c) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boiler No. 6 when burning blast furnace gas on the main burners alone and natural gas on the pilots, using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

D.15.11 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with conditions D.15.6, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol in Section C - Sulfur Fuel Sampling and Analysis of this permit.

D.15.12 Nitrogen Oxide (NOx) Emissions Monitoring for No. 4A Boiler [40 CFR 60.48b]

(a) Pursuant to 40 CFR 60.48b, the Permittee shall calibrate, maintain, and operate all necessary Predictive emission monitoring systems (PEMS) at Boiler No. 4A stack OT6274.

(b) The Permittee shall comply with Conditions D.15.8(a) on an on going basis using the Predictive Emissions Monitoring System (PEMS) to measure NOx emission rates by monitoring the steam generating operating conditions as specified in a plan submitted to and approved by IDEM, OAQ, pursuant to 40 CFR 60.49b(c).

(c) In the event that a breakdown of a predictive emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(d) The Permittee shall have replacement parts such as flow meters or oxygen meters on hand, in the event a malfunction of the PEMS occurs.

(e) The Permittee shall develop and implement a quality control (QC) and quality assurance (QA) program pursuant to the requirements of 40 CFR Part 60 Appendix F.

(f) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to the requirements of 40 CFR Part 60, Appendix F.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.15.13 Visible Emission Notations

When any one or combination of Boilers No. 1, No. 2, No. 3 and No. 5 combust fuel oil or any combination of fuel oil, and natural gas, blast furnace gas or coke oven gas

(a) Visible emission notations of the Boilers No. 1, No. 2, No. 3 and/or No. 5 stacks OT6271, OT6372, OT6273 and OT6275 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.15.14 Record Keeping Requirements

(a) To document compliance with Condition D.15.6, the Permittee shall maintain records in accordance with Section C - Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(b) To document compliance with condition D.15.7(b), the Permittee shall maintain records of the TBBH Boiler No. 6, natural gas usage.

(c) To document compliance with TBBH Boilers 4A, condition D.15.7(a), the Permittee shall maintain records required under 40 CFR 60.49b(c), (g) and (h), as applicable.

(d) To document compliance with Conditions D.15.13, the Permittee shall maintain records of once per day visible emission notations when any one or combination of Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil and natural gas, blast furnace gas or coke oven gas

(e) All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

D.15.15 Reporting Requirements

(a) To document compliance with conditions D.15.6, the Permittee shall submit a quarterly summary report as specified in Section C – Sulfur Dioxide Reporting (Entire Source) in this permit.

(b) To document compliance with condition D.15.7(b), the Permittee shall submit a report within thirty (30) days of the end of the quarter containing the TBBH Boiler No. 6, natural gas usage using the form at the end of this permit or its equivalent.

(c) If the Permittee elects to document compliance with condition D.15.8, either by monitoring of steam generating unit operating conditions or by operating a predictive emission monitoring system (PEMS) for NO_x emissions on No. 4A Boiler, the Permittee shall also submit reports as required under 40 CFR 60.49b(b) and (h).

(d) The Permittee shall submit an excess emissions report, as required by 40 CFR 60.7(c), within thirty (30) days of the end of each quarter for Nos. 4A and 6 boilers. In addition to submitting this report to the addresses listed in Section C - General Reporting Requirements.

(e) To document compliance with Conditions D.15.13, the Permittee shall maintain records of once per day visible emission notations when Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil, and natural gas, blast furnace gas or coke oven gas.

(f) All reports shall be submitted in accordance with Section C - General Reporting Requirements of this permit.

(g) These reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.15.16 Natural Gas Fired Boiler Certification

A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, for each of the TBBH Boilers Nos. 1, 2 and 3, with heat input of four hundred (400) million British Thermal unit per hour (MMBtu/hr), No. 4A, with a heat input of two hundred forty-four (244) MMBtu/hr, No. 5, with a heat input of four hundred fifty (450) MMBtu/hr and No. 6 with heat input of five hundred (500) million British Thermal unit per hour (MMBtu/hr) natural gas fired boilers. This report shall be submitted in accordance with Section C – General reporting Requirements. This report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.16 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Fugitive Dust Sources consisting of, but not limited to the following:

(a) Paved Roads and Parking Lots

(b) Unpaved Roads and Parking Lots

(c) Batch Transfer-Loading and Unloading Operations

(d) Continuous Transfer In and Out of Storage Piles

(e) Batch Transfer Operations-Slag and Kish Handling

(f) Wind Erosion from Storage Piles and Open Areas

(g) In Plant Transfer by Truck or Rail

(h) In Plant Transfer by Front End Loader or Skip Hoist

(i) Material Processing Facility

(j) Crusher Fugitive Emissions

(k) Material Processing Facility Building Openings

(l) Dust Handling Equipment

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.16.1 Particulate Matter (PM) Lake County Fugitive Dust Limits [326 IAC 6.8-10-4]

Pursuant to 326 IAC 6.8-10-4 (1) (Lake County Fugitive Particulate Matter Control Requirements), compliance with the opacity limits specified in Section C-Fugitive Dust Emissions shall be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP) submitted on March 1, 2003 (See Attachment A). If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

Compliance Determination Requirements

D.16.2 Particulate Matter Control

Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements), opacity from the activities shall be determined as follows:

(a) Paved Roads and Parking Lots
The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

(1) The first will be taken at the time of emission generation.

(2) The second will be taken five (5) seconds later.

(3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(b) Unpaved Roads and Parking Lots
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.

(c) Batch Transfer
The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

(d) Continuous Transfer
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.

(e) Wind Erosion from Storage Piles and Exposed Areas
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when application of fugitive particulate control measures is either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

(f) Material Transported by Truck or Rail
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the in plant transportation requirement.

(g) Material Transported by Front End Loader or Skip Hoist
Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:

(1) The first will be taken at the time of emission generation.

(2) The second will be taken five (5) seconds later.

(3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(h) Material Processing Limitations

(1) Compliance with stack opacity limitations from material processing facilities shall be determined using 40 CFR 60, Appendix A, Method 9.

(2) Compliance with the opacity limitations for fugitive particulate emissions from material processing equipment, except from a crusher at which a capture system is not used, shall be determined using 40 CFR 60, Appendix A, Method 9.

(3) Compliance with the opacity limitations for fugitive particulate emissions from a crusher at which a capture system is not used, shall be determined using 40 CFR 60, Appendix A, Method 9.

(4) Compliance with the opacity limitations for fugitive particulate emissions from a building enclosing all or part of the material processing equipment, except from a vent in the building shall be determined using 40 CFR 60, Appendix A, Method 22.

(5) Compliance with the opacity limitations for fugitive particulate emissions from building vents shall be determined using 40 CFR 60, Appendix A, Method 5 or 17 or 40 CFR 60, Appendix A, Method 9.

(i) Dust Handling Equipment
Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.16.3 Record Keeping Requirements

Pursuant to 326 IAC 6.8-10-4(4) (Lake County Fugitive Particulate Matter Control Requirements):

(a) The source shall keep the following documentation to show compliance with each of its control measures and control practices:

(1) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.

(2) For each application of water or chemical solution to roadways, the following shall be recorded:

(A) The name and location of the roadway controlled

(B) Application rate

(C) Time of each application

(D) Width of each application

(E) Identification of each method of application

(F) Total quantity of water or chemical used for each application

(G) For each application of chemical solution, the concentration and identity of the chemical

(H) The material data safety sheets for each chemical

(3) For application of physical or chemical control agents not covered by clause (B), the following:

(A) The name of the agent

(B) Location of application

(C) Application rate

(D) Total quantity of agent used

(E) If diluted, percent of concentration

(F) The material data safety sheets for each chemical

(4) A log recording incidents when control measures were not used and a statement of explanation.

(5) Copies of all records required by this section shall be submitted to the department within twenty (20) working days of a written request by the department.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.16.4 Reporting Requirements

(a) Pursuant to 326 IAC 6.8-10-4(4)(G) (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted to the department stating the following:

(1) The dates any required control measures were not implemented

(2) A listing of those control measures

(3) The reasons that the control measures were not implemented

(4) Any corrective action taken

(b) These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C – General Reporting Requirements of this permit.

Section D.17 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant activities as follows:

(a) Specifically regulated insignificant activities:

(1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(2) Cleaners and solvents characterized as follows:

(A) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38°C (100°F) or;

(B) Having a vapor pressure equal to or less than 0.7 kPA; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.[326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(3) The following VOC and HAP storage containers:

(A) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons. [326 IAC 8-9-1]

(B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids. [326 IAC 8-9-1]

(4) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.8-10-3]

(5) Any of the following structural steel and bridge fabrication activities:

(A) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.

(B) Using 80 tons or less of welding consumables. [326 IAC 6.8-10-3]

(6) Conveyors as follows:

(A) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day; [326 IAC 6.8-10-3]

(B) Uncovered coal conveying of less than or equal to 120 tons per day [326 IAC 6.8-10-3]

(7) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6.8-10-3]

(8) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6.8-1-2(a)]

(9) Vents from ash transport systems not operated at positive pressure. [326 IAC 6.8-1-2(a)]

(10) Fuel dispensing activities, including the following:

(A) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons q per day and filling storage tanks having a capacity equal to or less than ten thousand hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment. [326 IAC 8-9-1]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: Insignificant activities (continued):

(B) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9-1]

(b) Other Insignificant Activities

(1) Space heaters, process heaters, or boilers using the following fuels:
(A) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(B) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000)Btu per hour and firing fuel containing equal or less than five-tenths percent (0.5%) sulfur by weight.

(2) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) British thermal units per hour except where total capacity of equipment operated by one (1) stationary source as defined by subdivision (38) exceeds two million (2,000,000) British thermal units per hour.

(3) Combustion source flame safety purging on startup.

(4) Refractory storage not requiring air pollution control equipment.

(5) Equipment used exclusively for the following:
(A) Packaging lubricants and greases.
(B) Filling drums, pails, or other packaging containers with the following: Lubricating oils, Waxes and Greases.

(6) Application of: oils; greases; lubricants; and nonvolatile material; as temporary protective coatings.

(7) Closed loop heating and cooling systems

(8) Rolling oil recovery systems.

(9) Groundwater oil recovery wells.

(10) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(11) Water runoff ponds for petroleum coke-cutting and coke storage piles.

(12) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPS.

(13) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.

(14) Noncontact cooling tower systems with forced or induced draft cooling tower system not regulated under a NESHAP.

(15) Quenching operations used with heat treating operations.

(16) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(17) Heat exchanger cleaning and repair.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Facility Description [326 IAC 2-7-5(15)]: Insignificant activities (continued):

(18) Process vessel degassing and cleaning to prepare for internal repairs.

(19) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.

(20) Paved and unpaved roads and parking lots with public access.

(21) Underground conveyors.

(22) Asbestos abatement projects regulated by 326 IAC 14-10.

(23) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(24) Flue gas conditioning systems and associated chemicals, such as the following: sodium sulfate, ammonia and sulfur trioxide.

(25) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(26) Blow down for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(27) Activities associated with emergencies, including the following:
(A) On-site fire training approved by the department.
(B) Emergency generators as follows: Gasoline generators not exceeding one hundred ten (110) horsepower , Diesel generators not exceeding one thousand six hundred (1,600) horsepower and natural gas turbines or reciprocating engines not exceeding one thousand six hundred (1,600) horsepower.
(C) Stationary fire pump

(28) Purge double block and bleed valves.

(29) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.17.1 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

(1) The brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust

collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$\frac{P = 100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents generating fugitive dust shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

D.17.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2 (Cold Cleaner Degreaser Operation)]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations existing as of January 1, 1980, located, Lake County and which have the potential emissions of one hundred (100) tons per year or greater of VOC, the Permittee shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

(h) repair solvent leaks immediately, or shut down the degreaser;

(i) Store waste solvent only in covered containers and not dispose of waste solvent or transfer to another party, such that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere

D.17.3Volatile Organic Compounds (VOC) [326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)]

(a) Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph counties shall ensure that the following requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{O}C) (one hundred twenty degrees Fahrenheit (120°F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.17.6 Volatile Organic Compounds (VOC) [326 IAC 8-3-8] (Material requirements for cold cleaning degreasers)

Pursuant to 326 IAC 8-3-8 (Material requirements for cold cleaning degreasers), the users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Lake County except for solvents intended to be used to clean electronic components shall do the following:

(a) On and after November 1, 1999, no person shall Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) On and after May 1, 2001, no person shall Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(c) On and after November 1, 1999, all persons subject to the requirements of 326 IAC 8-3-8 (c)(1)(B) and (c)(2)(B) shall maintain each of the following records for each purchase:

(1) The name and address of the solvent supplier.

(2) The date of purchase.

(3) The type of solvent.

(4) The volume of each unit of solvent.

(5) The total volume of the solvent.

(6) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(d) All records required by 326 IAC 8-3-8 (d) shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

D.17.7 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]

(a) Pursuant to 326 IAC 8-9-1 (a) and (b) (Volatile Organic Liquid Storage Vessels), on and after October 1, 1995, stationary vessels used to store volatile organic liquids (VOL), that are located in Lake County with a capacity of less than thirty nine thousand (39,000) gallons are subject to the reporting and record keeping requirements of this rule. The VOL storage vessels are exempted from all other provisions of this rule.

(b) Pursuant to 326 IAC 8-9-6 (a) and (b), the Permittee of each Volatile Organic Liquid Storage vessel to which 326 IAC 8-9-1 applies shall maintain the following records for the life of the vessel and submit a report to IDEM, OAQ containing the following for each vessel:

(1) The vessel identification number,

(2) The vessel dimensions, and

(3) The vessel capacity.

SECTION E Nitrogen Oxides Budget Trading Program - NOX Budget Permit for NOX Budget Units Under 326 IAC 10-4-1(a)

ORIS Code: 50733

NOX Budget Source [326 IAC 2-7-5(15)]

One (1) Boiler House No. 4, emissions group 720, comprised of the following:

(a) Two (2) Boilers, 720 No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas and fuel oil, with a heat input of 500 MMBtu per hour each, exhausting through Stacks O46268 and O46269, respectively.

(b) One (1) Boiler, 720 No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a heat input of 500 MMBtu per hour, exhausting through Stack O46270.

One (1) Turbo Blower Boiler House (TBBH), emissions group 701, comprised of the following:

(a) Three (3) Boilers, 701 No. 1, No. 2, and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a heat input of 400 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler 701 No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

(c) One (1) boiler 701 No. 6, identified as OTB60467, constructed prior to August 17, 1971, equipped to combust blast furnace gas and natural gas, with a heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

E.1 Automatic Incorporation of Definitions [326 IAC 10-4-7(e)]

This NOX budget permit is deemed to incorporate automatically the definitions of terms under 326 IAC 10-4-2.

E.2 Standard Permit Requirements [326 IAC 10-4-4(a)]

(a) The owners and operators of the NOX budget source and each NOX budget unit shall operate each unit in compliance with this NOX budget permit.

(b) The NOX budget units subject to this NOX budget permit are the following:

(1) At Boiler House No. 4, 720 No. 1, 720 No. 2, and 720 No. 3; and

(2) At Turbo Blower Boiler House, 701 No. 1, 701 No. 2, 701 No. 3, 701 No. 5, and 701 No. 6.

E.3 Monitoring Requirements [326 IAC 10-4-4(b)]

(a) The owners and operators and, to the extent applicable, the NOX authorized account representative of the NOX budget source and each NOX budget unit at the source shall comply with the monitoring requirements of 40 CFR 75 and 326 IAC 10-4-12.

(b) The emissions measurements recorded and reported in accordance with 40 CFR 75 and 326 IAC 10-4-12 shall be used to determine compliance by each unit with the NOX

budget emissions limitation under 326 IAC 10-4-4(c) and Condition E.4, Nitrogen Oxides Requirements.

E.4 Nitrogen Oxides Requirements [326 IAC 10-4-4(c)]

(a) The owners and operators of the NOX budget source and each NOX budget unit at the source shall hold NOX allowances available for compliance deductions under 326 IAC 10-4-10(j), as of the NOX allowance transfer deadline, in each unit's compliance account and the source's overdraft account in an amount:

(1) Not less than the total NOX emissions for the ozone control period from the unit, as determined in accordance with 40 CFR 75 and 326 IAC 10-4-12;

(2) To account for excess emissions for a prior ozone control period under 326 IAC 10-4-10(k)(5); or

(3) To account for withdrawal from the NOX budget trading program, or a change in regulatory status of a NOX budget opt-in unit.

(b) Each ton of NOX emitted in excess of the NOX budget emissions limitation shall constitute a separate violation of the Clean Air Act (CAA) and 326 IAC 10-4.

(c) Each NOX budget unit shall be subject to the requirements under (a) above and 326 IAC 10-4-4(c)(1) starting on May 31, 2004.

(d) NOX allowances shall be held in, deducted from, or transferred among NOX allowance tracking system accounts in accordance with 326 IAC 10-4-9 through 11, 326 IAC 10-4-13, and 326 IAC 10-4-14.

(e) A NOX allowance shall not be deducted, in order to comply with the requirements under (a) above and 326 IAC 10-4-4(c)(1), for an ozone control period in a year prior to the year for which the NOX allowance was allocated.

(f) A NOX allowance allocated under the NOX budget trading program is a limited authorization to emit one (1) ton of NOX in accordance with the NOX budget trading program. No provision of the NOX budget trading program, the NOX budget permit application, the NOX budget permit, or an exemption under 326 IAC 10-4-3 and no provision of law shall be construed to limit the authority of the U.S. EPA or IDEM, OAQ to terminate or limit the authorization.

(g) A NOX allowance allocated under the NOX budget trading program does not constitute a property right.

(h) Upon recordation by the U.S. EPA under 326 IAC 10-4-10, 326 IAC 10-4-11, or 326 IAC 10-4-13, every allocation, transfer, or deduction of a NOX allowance to or from each NOX budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, this NOX budget permit of the NOX budget unit by operation of law without any further review.

E.5 Excess Emissions Requirements [326 IAC 10-4-4(d)]

The owners and operators of each NOX budget unit that has excess emissions in any ozone control period shall do the following:

(a) Surrender the NOX allowances required for deduction under 326 IAC 10-4-10(k)(5).

(b) Pay any fine, penalty, or assessment or comply with any other remedy imposed under 326 IAC 10-4-10(k)(7).

E.6 Record Keeping Requirements [326 IAC 10-4-4(e)] [326 IAC 2-7-5(3)]

Unless otherwise provided, the owners and operators of the NOx budget source and each NOx budget unit at the source shall keep, either on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years:

(a) The account certificate of representation for the NOX authorized account representative for the source and each NOX budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 326 IAC 10-4-6(h). The certificate and documents shall be retained either on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond the five (5) year period until the documents are superseded because of the submission of a new account certificate of representation changing the NOX authorized account representative.

(b) All emissions monitoring information, in accordance with 40 CFR 75 and 326 IAC 10-4-12, provided that to the extent that 40 CFR 75 and 326 IAC 10-4-12 provide for a three (3) year period for record keeping, the three (3) year period shall apply.

(c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the NOX budget trading program.

(d) Copies of all documents used to complete a NOX budget permit application and any other submission under the NOX budget trading program or to demonstrate compliance with the requirements of the NOX budget trading program.

This period may be extended for cause, at any time prior to the end of five (5) years, in writing by IDEM, OAQ or the U.S. EPA. Records retained at a central location within Indiana shall be available immediately at the location and submitted to IDEM, OAQ or U.S. EPA within three (3) business days following receipt of a written request. Nothing in 326 IAC 10-4-4(e) shall alter the record retention requirements for a source under 40 CFR 75. Unless otherwise provided, all records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

E.7 Reporting Requirements [326 IAC 10-4-4(e)]

(a) The NOX authorized account representative of the NOX budget source and each NOX budget unit at the source shall submit the reports and compliance certifications required under the NOX budget trading program, including those under 326 IAC 10-4-8, 326 IAC 10-4-12, or 326 IAC 10-4-13.

(b) Pursuant to 326 IAC 10-4-4(e) and 326 IAC 10-4-6(e)(1), each submission shall include the following certification statement by the NOX authorized account representative: "I am authorized to make this submission on behalf of the owners and operators of the NOX budget sources or NOX budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

(c) Where 326 IAC 10-4 requires a submission to IDEM, OAQ, the NOX authorized account representative shall submit required information to:

Indiana Department of Environmental Management
Office of Air Quality

100 North Senate Avenue
Indianapolis, Indiana 46204-2251

(d) Where 326 IAC 10-4 requires a submission to U.S. EPA, the NOX authorized account representative shall submit required information to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue, NW
Mail Code 6204N
Washington, DC 20460

E.8 Liability [326 IAC 10-4-4(f)]

The owners and operators of each NOX budget source shall be liable as follows:

(a) Any person who knowingly violates any requirement or prohibition of the NOX budget trading program, a NOX budget permit, or an exemption under 326 IAC 10-4-3 shall be subject to enforcement pursuant to applicable state or federal law.

(b) Any person who knowingly makes a false material statement in any record, submission, or report under the NOX budget trading program shall be subject to criminal enforcement pursuant to the applicable state or federal law.

(c) No permit revision shall excuse any violation of the requirements of the NOX budget trading program that occurs prior to the date that the revision takes effect.

(d) Each NOX budget source and each NOX budget unit shall meet the requirements of the NOX budget trading program.

(e) Any provision of the NOX budget trading program that applies to a NOX budget source, including a provision applicable to the NOX authorized account representative of a NOX budget source, shall also apply to the owners and operators of the source and of the NOX budget units at the source.

(f) Any provision of the NOX budget trading program that applies to a NOX budget unit, including a provision applicable to the NOX authorized account representative of a NOX budget unit, shall also apply to the owners and operators of the unit. Except with regard to the requirements applicable to units with a common stack under 40 CFR 75 and 326 IAC 10-4-12, the owners and operators and the NOX authorized account representative of one (1) NOX budget unit shall not be liable for any violation by any other NOX budget unit of which they are not owners or operators or the NOX authorized account representative and that is located at a source of which they are not owners or operators or the NOX authorized account representative.

E.9 Effect on Other Authorities [326 IAC 10-4-4(g)]

No provision of the NOX budget trading program, a NOX budget permit application, a NOX budget permit, or an exemption under 326 IAC 10-4-3 shall be construed as exempting or excluding the owners and operators and, to the extent applicable, the NOX authorized account representative of a NOX budget source or NOX budget unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the CAA.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: U.S. Steel - Gary Works
Source Address: One North Broadway, Gary, IN 46402
Mailing Address: One North Broadway, Gary, IN 46402
Part 70 Permit No.: 089-7663-00121

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.

Please check what document is being certified:

Test Result (specify)_____

Report (specify) _____

Notification (specify) _____

Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

EMERGENCY OCCURRENCE REPORT

Source Name: U.S. Steel - Gary Works
Source Address: One North Broadway, Gary, IN 46402
Mailing Address: One North Broadway, Gary, IN 46402
Part 70 Permit No.: T089-7663-00121

This form consists of 2 pages **Page 1 of 2**

This is an emergency as defined in 326 IAC 2-7-1(12) The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and The Permittee must submit notice in writing or by facsimile within two (**2**) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

•

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance Data Section

QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel - Gary Works
Source Address: One North Broadway, Gary, IN 46402
Mailing Address: One North Broadway, Gary, IN 46402
Part 70 Permit No.: T089-7663-00121

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. . A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".
9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.
9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name:	U.S. Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	

9	Natural Gas Only
9	Alternative Fuel Burned From:_____ To:_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Operating Permit Quarterly Report

Source Name:	U.S. Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	No. 3 Sinter Plant Sinter Strand Windbox recirculating burners (ISB001, ISB002, and ISB003)
Parameter:	Natural gas usage
Limit:	95.5 million cubic feet (MMCF) per 12-consecutive month period with compliance demonstrated at the end of each month.

QUARTER: _____ YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Permit Quarterly Report

Source Name:	U.S. Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	No. 3 Sinter Plant Sinter Strand Windbox recirculating burners (ISB001, ISB002, and ISB003)
Parameter:	Coke oven gas usage
Limit:	1,637.4 million cubic feet (MMCF) per 12-consecutive month period with compliance demonstrated at the end of each month

QUARTER:_____ YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by :_____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Operating Permit Quarterly Report

Source Name: U.S. Steel - Gary Works
Source Address: One North Broadway, Gary, IN 46402
Mailing Address: One North Broadway, Gary, IN 46402
Part 70 Permit No.: T089-7663-00121
Facility: South Sheet Mill hydrogen atmosphere batch annealing furnaces
Parameter: NOx
Limit: 37.2 million cubic feet (MMCF) of natural gas per 12 consecutive month period with compliance demonstrated at the end of each month,

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This month	11 previous months	12 month total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.
9 Deviation/s occurred in this quarter.

Deviation has been reported on:_____

Submitted by:_____

Title / Position:_____

Signature:_____

Date_____

Phone:_____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR Quality
COMPLIANCE DATA SECTION

Part 70 Operating Permit Quarterly Report

Source Name: U. S. Steel - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Mailing Address: One North Broadway, Gary, Indiana 46402
Part 70 Part No.: T089-7663-00121
Facility: Turboblower Boiler House (TBBH) boiler no. 6
Parameter: Natural Gas Usage
Limits: 1,059.7 million cubic feet (MMCF) per 12-consecutive month period with compliance demonstrated at the end of each month.

QUARTER: _____YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This month	11 previous months	12 month total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name:	US Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	Coke oven battery natural gas injection jets (CPNG001, CPNG002, and CPNG003)
Parameter:	Natural gas usage
Limit:	178.7 million cubic feet (MMCF) per 12-consecutive month period with compliance demonstrated at the end of each month.

QUARTER:_____YEAR_____

Month	Column 1	Column 2	Column 1 + Column 2
	This month	11 previous months	12 month total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

9 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name:	US Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	Boilers No. through No. 10 and the temporary rental boiler at the coke plant boiler house
Parameter:	Total NOx emissions
Limit:	Less than 64.6 tons per twelve (12) consecutive month period with compliance demonstrated at the end of each month

NOx Emissions (tons/month) = (280X + 36Y + 129 Z)/ 2000

Where X = total monthly natural gas usage in boilers No. 1 through No. 8 (MMCF/month)
Y= monthly natural usage in the temporary rental boiler (MMCF/month)
Z = total monthly natural gas usage in boilers No. 9 and 10 (MMCF/month)

QUARTER:_____YEAR_____

Month	Column 1	Column 2	Column 1 + Column 2
	This month	11 previous months	12 month total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

9 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name:	US Steel - Gary Works
Source Address:	One North Broadway, Gary, IN 46402
Mailing Address:	One North Broadway, Gary, IN 46402
Part 70 Permit No.:	T089-7663-00121
Facility:	Boilers No. 1 through No.10 and the temporary rental boiler at the coke plant boiler house
Parameter:	Total Natural gas usage
Limit:	Less than 2,550 MMCF per 12-consecutive month period with compliance demonstrated at the end of each month.

QUARTER:_____YEAR_____

Month	Column 1	Column 2	Column 1 + Column 2
	This month	11 previous months	12 month total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

9 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for a Part 70 Operating Permit

Source Name:	US Steel - Gary Works
Source Location:	One North Broadway, Gary, IN 46402
County:	Lake
SIC Code:	3312
Operation Permit No.:	T089-7663-00121
Permit Reviewer:	Gail McGarrity

On, February 1, 2005, the Office of Air Quality (OAQ) had a notice published in The Times, Munster, Indiana, stating that US Steel - Gary Works had applied for a Part 70 Operating Permit to operate an integrated steel mill. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of sixty (60) days to provide comments on whether or not this permit should be issued as proposed.

Written comments were received from US Steel - Gary Works on April 11, 2005. These comments and IDEM, OAQ responses, including changes to the permit (where language deleted is shown with ~~strikeout~~ and the added is shown in **bold**) are as follows:

Comment 1

Any changes or requested revisions to Sections A, B, or C would be reflective of the same changes or requested revisions for the Technical Support Document which in most cases repeats the identical language of Sections A, B, and C under the various rule applicability sections.

Response to Comment 1

The Technical Support Document (TSD) is a public record and historical document at the time the original permit draft was written. Any changes or requested revisions will be reflected in this addendum to the original TSD.

Comment 2

Section A.1
USS requests the following corrections:

Responsible Official~~s~~: ~~*Coke - Plant Manager, Gary Coke Operations*~~
~~*Steel -*~~ *General Manager, Gary Works* ~~*Gary Sheet*~~

Response to Comment 2

The Responsible official is revised as follows:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates an integrated steel mill.

Responsible Official~~s~~: ~~Coke - Plant Manager, Gary Coke Operations~~

~~Steel~~ General Manager, **Gary Works** ~~Gary Sheet~~

Comment 3

Section A.2

IDEM has determined under the Part 70 Source Definition that USS and each of the on-site contractors listed in Section A.2 are under common control and considered one (1) source due to "contractual control." USS disagrees with IDEM's decision and requests that contractors NOT be included in this permit for the following reasons: "Contractual control" is not one of the criteria for determining if a group of sources should be considered part of the same "major source" for Title V permitting. See 326 IAC 2-7-1(22). "Major source" is defined so that it "shall include any group of stationary sources that are located on one (1) or more contiguous or adjacent properties and are under common control of the same person (or persons under common control) belonging to a single major industrial grouping." While these contractors operate on contiguous properties with USS, they are all separately owned and operated and most belong in a different two-digit SIC code major industrial grouping. The contracts between USS and these service providers are arms-length agreements to purchase services, and they do not give USS the right or obligation to control contractor operations. Without further evidence of common control, these contractors should not be considered "support facilities" for the purpose of assigning them the steel mill's major industrial grouping.

Contractor equipment should be evaluated independently to determine if a Title V permit is warranted and the contractor should be contacted regarding compliance with any applicable permit obligations. USS's Title V Permit may list the onsite contractors and their separately issued permits solely for administrative purposes. However, all language in the draft Title V Permit that could impose compliance obligations on USS for the actions of its contractors should be deleted from the permit before final issuance.

Response to Comment 3

On September 24, 1996, IDEM adopted the non-rule policy document "Title V Permitting Issues: On-Site Contractors" (Air-006-NPD) regarding on-site contractors and the definition of major source (326 IAC 2-7-1 (22)). IDEM presumes that an on-site contractor is part of the primary source located on the property if the contractor provides a majority of its goods or services to the primary source. A primary source or on-site contractor can rebut this presumption by establishing that the on-site contractor does not provide the majority of its goods or services to the primary source. All of the information IDEM has indicates that the contractor provides a majority of its services to USS, and that the contractor receives a majority of its input from USS. At this time, the Permittee has provided no additional information rebutting IDEM's assertion. However, the following changes have been made to the permit to clarify that Condition A.2 is not federally enforceable.

Section A.2

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, **A.2,** A.3 and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek

modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

In addition it has been determined that the paragraph that discusses common control does not need to be included in Condition A.2.

~~IDEM has determined that U.S. Steel – Gary Works and each of the on-site contractors are under the common control of U.S. Steel - Gary Works. These plants are considered one source due to contractual control. Therefore, the term A source in the Part 70 documents refers to both U.S. Steel- Gary Works and the on-site contractors as one source.~~

Recognizing that on-site contractors may find one Title V permit encompassing the entire major source cumbersome to use, IDEM is issuing separate Title V permits for the on-site contractors and the primary source. The permits are issued based on a logical division of operations, with the operations of the on-site contractors segregated from the operations of the primary source.

Consistent with current enforcement practice, the on-site contractor is responsible for complying with all applicable regulations. If an on-site contractor violates a provision of its Title V permit, IDEM will attempt to resolve the issue with the on-site contractor. If IDEM is unable to reach a settlement with the on-site contractor, IDEM may include the primary source in the enforcement proceeding in an attempt to resolve the issues. IDEM anticipates that in most cases, negotiations between the on-site contractor and IDEM will successfully resolve the issues. The permit is not revised as a result of this comment.

Comment 4

Section A.3
USS requests that all facility descriptions In Section A.3 be revised to match the facility descriptions provided in these comments for the respective Section D areas. Please refer to Section D comments.

Response to Comment 4

The facility descriptions are revised in Condition A.3 and the corresponding D Section description boxes as shown in Response to Comments 15, 33, 93, 94, 95, 128, 133, 148, 176, 177, 178, 179, 180, 181, 182, 206, 234, 257, 263, 270, 281 and 305.

Comment 5

Section A.4
This section omits several insignificant activity functions for the facility. If it is IDEM's intent to only include those activities to which a regulation applies, then the listings are inconsistent and incomplete. For example, conveyors for coal are listed but there is no reference to any applicable regulation for this activity in Section D.17. The appropriate reference would be the general fugitive dust opacity limitations provided in Section C.5 and in D.16. We would suggest listing all activities that were provided in the permit application check list to remain consistent with the facility descriptions.

Response to Comment 5

All the insignificant activities listed in the USS Part 70 Permit application are added to Condition A.4 and in description box Section D.17. The condition name is changed to reflect the addition of all the insignificant activities. The rule references were revised to reflect the specific rules that apply to each activity. Therefore the permit is revised as follows:

A.4 ~~Specifically Regulated~~ Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

(a) Specifically regulated insignificant activities:

(1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(2) Cleaners and solvents characterized as follows:

(A) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;

(B) Having a vapor pressure equal to or less than 0.7 kPA; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.[326 IAC 8-3-5][326 IAC 8-3-6][326 IAC 8-9-1]

(3) The following VOC and HAP storage containers:

(A) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons. **[326 IAC 8-9-1]**

(B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids. [326 IAC 8-9-1]

(4) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(5) Any of the following structural steel and bridge fabrication activities:

(A) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.

(B) Using 80 tons or less of welding consumables. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(6) Conveyors as follows:

(A) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(B) Uncovered coal conveying of less than or equal to 120 tons per day. [326 IAC 6.8-10-3]

(7) Coal bunker and coal scale exhausts and associated dust collector vents. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(8) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(9) Vents from ash transport systems not operated at positive pressure. ~~[326 IAC 6-1-2(a)]~~ **[326 IAC 6.8-10-3]**

(10) Fuel dispensing activities, including the following:

(A) A gasoline fuel transfer dispensing operation handling less than or

equal to one thousand three hundred (1,300) gallons q per day and filling storage tanks having a capacity equal to or less than ten thousand hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment. [326 IAC 8-9-1]

(B) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9-1]

(b) Other Insignificant Activities

(1) Space heaters, process heaters, or boilers using the following fuels:

(A) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(B) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000)Btu per hour and firing fuel containing equal or less than five-tenths percent (0.5%) sulfur by weight.

(2) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) British thermal units per hour except where total capacity of equipment operated by one (1) stationary source as defined by subdivision (38) exceeds two million (2,000,000) British thermal units per hour.

(3) Combustion source flame safety purging on startup.

(4) Refractory storage not requiring air pollution control equipment.

(5) Equipment used exclusively for the following:

(A) Packaging lubricants and greases.

(B) Filling drums, pails, or other packaging containers with the following: Lubricating oils, Waxes and Greases.

(6) Application of: oils; greases; lubricants; and nonvolatile material; as temporary protective coatings.

(7) Closed loop heating and cooling systems.

(8) Rolling oil recovery systems.

(9) Groundwater oil recovery wells.

(10) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(11) Water runoff ponds for petroleum coke-cutting and coke storage piles.

(12) Any operation using aqueous solutions containing less than 1% by weight

of VOCs, excluding HAPS.

(13) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.

(14) Noncontact cooling tower systems with forced or induced draft cooling tower system not regulated under a NESHAP.

(15) Quenching operations used with heat treating operations.

(16) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(17) Heat exchanger cleaning and repair.

(18) Process vessel degassing and cleaning to prepare for internal repairs.

(19) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.

(20) Paved and unpaved roads and parking lots with public access.

(21) Underground conveyors

(22) Asbestos abatement projects regulated by 326 IAC 14-10.

(23) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(24) Flue gas conditioning systems and associated chemicals, such as the following: sodium sulfate, ammonia and sulfur trioxide.

(25) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(26) Blow down for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(27) Activities associated with emergencies, including the following:
- **(A) On-site fire training approved by the department.**
- **(B) Emergency generators as follows: Gasoline generators not exceeding one hundred ten (110) horsepower, Diesel generators not exceeding one thousand six hundred (1,600) horsepower and natural gas turbines or reciprocating engines not exceeding one thousand six hundred (1,600) horsepower.**
- **(C) Stationary fire pumps**

(28) Purge double block and bleed valves.

(29) A laboratory as defined in 326 IAC 2-7-1(21)(D).

Comment 6

Section B.10, Item (d)
USS requests the following corrections:

(d) *To the extent the Permittee is required by 40 CFR 60/63 to have an Operation Maintenance and Monitoring (OMM) Plan for a unit or is required by 326 IAC 6-10.1 to have a Continuous Compliance Plan (CCP), such Plans ~~is~~ are deemed to satisfy the PMP requirements in 326 IAC 1-6-3 for that unit.*

Explanation: IDEM allows Operation and Maintenance Plans and Monitoring Plans required by 40 CFR 60/63 to satisfy the Preventive Maintenance Plan requirements. Most control devices at USS have Continuous Compliance Plans (CCPs) required by 326 IAC 6.8-8 These CCPs include extensive maintenance monitoring and inspection procedures and should also be allow in lieu of a PMP.

Response to Comment 6

IDEM, OAQ is required to include all applicable rules in the Part 70 Operating Permit. Since Preventive Maintenance Plans and Continuous Compliance Plans are both required, the Permittee must comply with both requirements. The Permittee can determine what the PMPs should consist of to be effective. The Permittee can consult with the IDEM inspector assigned to the source to evaluate if the CCP requirements are sufficient and effective to serve as the PMP. Therefore, the permit is not revised as a result of this comment.

Comment 7

Section C.5, Item (b)

(b) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the facility's most current Fugitive Dust Control Plan, ~~submitted on January 28, 2000.~~

Explanation: The latest revision of the Gary Works Fugitive Dust Control Plan is dated March 1, 2003 and undergoes periodic updates. It is not prudent to limit the facility to a specifically dated plan version.

Response to Comment 7

The Fugitive Dust Control Plan is an applicable requirement. Pursuant to 326 IAC 2-7-4, all applicable requirements shall be included in the Part 70 Operating permit. For any revisions to the Fugitive Dust Control Plan, the Permittee is required to submit a revised copy of the plan to IDEM, OAQ for review and subsequent inclusion in the Part 70 Operating permit. An updated fugitive dust control plan was submitted on March 1, 2003 and is attached as Attachment A. Therefore, the permit is revised as follows:

C.5 Fugitive Dust Emissions Fugitive Dust Emissions [326 IAC 6.8-10-3][326 IAC 6.8-11]

(b) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on ~~January 28, 2000~~ **March 1, 2003 (See Attachment A).**

Comment 8

Section C.7
USS requests the following corrections:

C.7 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20] (Entire Source) ~~326 IAC 7-4-1.1(c)(22)(K) and (L)~~[

The Permittee shall comply with all applicable sulfur dioxide limitations in accordance with 326 IAC 7-4.1-20. ~~Pursuant to 326 IAC 7-4-1.1(c)(22)(K) and (L), the total actual heat input from coke oven gas, coal, and fuel oil usage at all facilities operating shall not exceed the following:~~

~~(a) Two thousand seven hundred forty (2,740) million Btu per hour based on five hundred ten (510) million Btu per million cubic feet of coke oven gas,~~

~~(b) Twenty-six (26) million Btu per ton of coal, and~~

~~(c) One hundred fifty (150) million Btu per thousand gallons of fuel oil;~~

~~(d) The sulfur dioxide emission rate from coke oven gas, except at the Coke Batter underfire Stacks Nos. 2, 3, 5 and 7(Section D.2), and from fuel oil shall not exceed one and seven-hundredths (1.07) pounds per million Btu.~~

Response to Comment 8

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The entire source Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(K) and (L) were deleted from the revised rule and this condition is deleted from section C of this permit. All subsequent Section C conditions are renumbered as necessary. Therefore, the permit is revised as follows:

~~C.7 Sulfur Dioxide (SO_2) Limitations (Entire Source) [326 IAC 7-4-1.1(c)(22)(K) and (L)]~~

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(K) and (L), the total actual heat input from coke oven gas, coal, and fuel oil usage at all facilities operating shall not exceed the following:~~

~~(a) Two thousand seven hundred forty (2,740) million Btu per hour based on five hundred ten (510) million Btu per million cubic feet of coke oven gas,~~

~~(b) Twenty-six (26) million Btu per ton of coal, and~~

~~(c) One hundred fifty (150) million Btu per thousand gallons of fuel oil;~~

~~(d) The sulfur dioxide emission rate from coke oven gas, except at the Coke Batter underfire Stacks Nos. 2, 3, 5 and 7(Section D.2), and from fuel oil shall not exceed one and seven-hundredths (1.07) pounds per million Btu.~~

Comment 9

Section C.10
USS requests the following corrections:

C.10 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis (Entire Source) [326 IAC 7-4.1-2 ~~7-4-1.1(d)~~]

(a) Pursuant to 326 IAC 7-4.1-2 ~~7-4-1.1(d),~~ and in order to comply with sulfur dioxide limitations in the applicable D sections, the Permittee shall submit a sampling and analysis protocol to the department by July 1, 2006~~. follow the Sulfur Dioxide (SO_2) Fuel Sampling and Analysis protocol submitted to IDEM, OAQ on December 13, 1996. The protocol submitted on December 13, 1996 by the Permittee is hereby incorporated by reference into this operating permit.~~ The protocol shall ~~contain at a minimum, the following:~~

(1) shall contain a description of planned procedures for:

(A) sampling of sulfur-bearing fuels and materials;

(B) analysis of the sulfur content; and

(C) any planned direct measurement of sulfur dioxide emissions vented to the atmosphere; and

(2) Specify the frequency of sampling, analysis, and measurement for each fuel and material and for each emissions unit.

(b) The protocol may be revised as necessary with approval by IDEM-OAQ.

~~(1) A description of planned procedures for sampling of sulfur-bearing fuels and materials, for analysis of the sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(2) The frequency of sampling, analysis, and/or measurement for each fuel and material and for each facility.~~

~~(b) IDEM, OAQ may revise the protocol as necessary to establish acceptable sampling, analysis, and/or measurement procedures and frequency.~~

(c) IDEM, OAQ may also require that a source conduct a stack test at any facility listed in this permit ~~section~~ within sixty (60) ~~thirty (30)~~ days of written notification by the IDEM-OAQ.

Explanation: This correction substitutes the exact language from the newly revised SIP.

Response to Comment 9

Condition C.10 is renumbered C.9.

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

C.~~10~~ **9** Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis (Entire Source) ~~[326 IAC 7-4-1.1(d)]~~ **[326 IAC 7-4.1-2]**

~~(a) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with sulfur dioxide limitations in the D sections, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol submitted to IDEM, OAQ on August 16, 2000. The protocol submitted on August 16, 2000 by the Permittee is hereby incorporated by reference into this operating permit. The protocol shall contain at a minimum, the following:~~

~~(1) A description of planned procedures for sampling of sulfur-bearing fuels and materials, for analysis of the sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(2) The frequency of sampling, analysis, and/or measurement for each fuel and material and for each facility.~~

~~(b) IDEM, OAQ may revise the protocol as necessary to establish acceptable sampling, analysis, and/or measurement procedures and frequency.~~

~~(c) IDEM, OAQ may also require that a source conduct a stack test at any facility listed in this section within thirty (30) days of written notification by the IDEM-OAQ.~~

Pursuant to 326 IAC 7-4.1-2 and in order to comply with sulfur dioxide limitations in the applicable D sections, the Permittee shall submit a sampling and analysis protocol to the Department by July 1, 2006.

(a) The protocol shall contain a description of planned procedures for:

(1) sampling of sulfur-bearing fuels and materials;

(2) analysis of the sulfur content; and

(3) any planned direct measurement of sulfur dioxide emissions vented to the atmosphere; and

(b) Specify the frequency of sampling, analysis, and measurement for each fuel and material and for each emissions unit.

(c) The protocol may be revised as necessary with approval by IDEM-OAQ.

(d) IDEM, OAQ may also require that a source conduct a stack test at any facility listed in this permit within sixty (60) days of written notification by the IDEM-OAQ.

Comment 10

Section C.13, Items (b) and (c)
USS requests the following corrections:

(b) Pursuant to 326 IAC 6-1-10.1(u), the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the IDEM, OAQ. The Permittee shall submit the updated CCP to IDEM, OAQ, <u>if required,</u> within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6-1-10.1, failure to submit a CCP, maintain all information required by the CCP at the source, or submit updates, if required to a CCP is a violation of 326 IAC 6-1-10.1.

Explanation: Submittal of updated plans is not automatically required pursuant to 326 IAC 6-1-10.1(u).

Response to Comment 10

The requested correction is to add language of the revised 326 IAC 6 Lake County Particulate Matter Rule. The permit is revised as shown below.

(b) Pursuant to **326 IAC 6.8-8-8,** the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the IDEM, OAQ. **If required by IDEM, OAQ,** the Permittee shall submit the updated CCP to IDEM, OAQ**,** within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit updates to a CCP is a violation of 326 IAC 6.8-8.

Comment 11

Section C.15 Items (a) and (b)
USS requests the following corrections"

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus ~~two percent (±2%)~~ five percent (±5%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus ~~two percent (±2%)~~ five percent (±5%) of full scale reading.

Explanation: A 2% range is very narrow and more stringent than federal NESHAP requirements for instrumentation. We request that IDEM be no more stringent than the federal requirements.

Response to Comment 11

IDEM realizes that these specifications can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM, OAQ has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition.

C.15 ~~Pressure Gauge and Other~~ Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

(a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge **employed**~~ **When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device** shall have a scale such that the

expected ~~normal~~ **maximum** reading **for the normal range** shall be no less than twenty percent (20%) of full scale ~~and be accurate within plus or minus two percent (2%) of full scale reading~~.

~~(b) Whenever a condition in this permit requires the measurement of a temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.~~

~~(c)~~ **(b)** The Permittee may request **that** the IDEM, OAQ approve the use of ~~a pressure gauge or other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ the parameters.

Comment 12

Section C.16
USS requests the following corrections:

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on October 5, 1996 for initial approval by IDEM.

(b) Upon direct notification by IDEM, OAQ,, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the latest approved version of their ERP for the appropriate episode level. [326 IAC 1-5-3]

Explanation: We request the added language so that an updated and approved plan does not require a permit revision.

Response to Comment 12

Since the ERP is frequently revised by the source, the permit is revised as follows:

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on October 5, 1996 **for initial approval by IDEM.**

(b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the **latest IDEM** approved **version of the** ERP for the appropriate episode level. [326 IAC 1-5-3]

Comment 13

Section C.22
USS requests the following corrections:

C.22 Sulfur Dioxide (SO_2) Record keeping Requirements (Entire Source) [326 IAC 7-4.1-20(c) ~~7-4-1.1(c)(22)(M)(i) and (ii)~~]

Pursuant to 326 IAC 7-4.1-20(c)(1), the Permittee shall record and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process , or combustion unit identified in this section, including the following:

(a) Identification of the applicable limit.

(b) The amount and type each fuel used for each facility for each calendar day of operation.

(c) The operating scenario chosen for the US Steel – Gary Works.

(d) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per hour calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by twenty-four (24) hours.

(e) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per MMBtu for those facilities with a pounds per MMBtu limit in this rule calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by the total heat input per day in MMBtu.

~~*(a) The Permittee shall maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in 326 IAC 7-4-1.1(c)(22)(A) through (K).*~~

~~*(b) The Permittee shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the actual heat input for facilities listed in 326 IAC 7-4-1.1(c)(22)(G) through (H).*~~

Explanation: These corrections were made for consistency with the newly revised SIP.

Response to Comment 13

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

C.22 Sulfur ~~Dioxide (SO_2)~~ Record keeping Requirements (Entire Source) [~~326 IAC 7-4-1.1(c)(22)(M)(i) and (ii)~~] **[326 IAC 7-4.1-20(c)(1)]**

~~(a) The Permittee shall maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in 326 IAC 7-4-1.1(c)(22)(A) through (K).~~

~~(b) The Permittee shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the actual heat input for facilities listed in 326 IAC 7-4-1.1(c)(22)(G) through (H).~~

Pursuant to 326 IAC 7-4.1-20(c)(1), the Permittee shall record and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:

(a) Identification of the applicable limit.

(b) The amount and type each fuel used for each facility for each calendar day of operation.

(c) The operating scenario chosen for the US Steel – Gary Works.

(d) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per hour calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by twenty-four (24) hours.

(e) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per MMBtu for those facilities with a pounds per MMBtu limit in this rule calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by the total heat input per day in MMBtu.

Comment 14

Section C.24
USS requests the following corrections:

C.24 Sulfur Dioxide (SO_2) Reporting Requirements (Entire Source) [326 IAC 7-4.1-20 ~~7-4-1.1(c)(22)(M)(iii)~~

Pursuant to 326 IAC 7-4.1-20(c)(2), the Permittee shall submit an exception report to IDEM, OAQ, within thirty (30) days of an exceedance of the limitations in this permit that included the following:

(a) Identification of the applicable limit or limits being exceeded.

(b) Identification of any emissions unit exceeding the applicable limit and the dates when the limits were exceeded.

(c) The calculated sulfur dioxide emission rate in pounds per hour for each facility exceeding the limitations for the days that the pounds per hour limitations were exceeded.

(d) The calculated sulfur dioxide emission rate in pounds per million Btu for each combustion unit, furnace, boiler, or process operation for each facility exceeding the pounds per million Btu limitation for the days that the limitations were exceeded.

(e) The actual daily fuel usage for each combustion unit, furnace, boiler, or process operation for each facility exceeding the limitations for the days that the limitations were exceeded.

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(M) A summary of the calculated sulfur dioxide emission rates in pounds per MMBtu or in pounds per hour, the types of fuel and actual fuel usage for each day and any violations, for each combustion unit, furnace boiler or process operation at each facility for each day during the calendar quarter shall be submitted to IDEM within thirty (30) days at the end of each calendar quarter for facilities listed in 326 IAC 7-4-1.1(c)(22)(G), for each facility for each day during the calendar quarter, the total fuel usage for each type at each facility for each day, and any violations of 326 IAC 7-4-1.1(c)(22) (D)(iv), (G)(i), (H)(i), (H)(ii), (I), (J)(i), (J)(ii), (K), or (M). The report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

Explanation: These corrections were made for consistency with the newly revised SIP.

Response to Comment 14

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became

effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

C.24 Sulfur ~~Dioxide (SO_2)~~ Reporting Requirements (Entire Source) ~~[326 IAC 7-4-1.1(c)(22)(M)(iii)]~~ **[326 IAC 7-4.1-20(c)]**

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(M) A summary of the calculated sulfur dioxide emission rates in pounds per MMBtu or in pounds per hour, the types of fuel and actual fuel usage for each day and any violations, for each combustion unit, furnace boiler or process operation at each facility for each day during the calendar quarter shall be submitted to IDEM within thirty (30) days at the end of each calendar quarter for facilities listed in 326 IAC 7-4-1.1(c)(22)(G), for each facility for each day during the calendar quarter, the total fuel usage for each type at each facility for each day, and any violations of 326 IAC 7-4-1.1(c)(22) (D)(iv), (G)(i), (H)(i), (H)(ii), (I), (J)(i), (J)(ii), (K), or (M). The report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

Pursuant to 326 IAC 7-4.1-20(c)(2), the Permittee shall submit an exception report to IDEM, OAQ, within thirty (30) days of an exceedance of the limitations in this permit that included the following:

(a) Identification of the applicable limit or limits being exceeded.

(b) Identification of any emissions unit exceeding the applicable limit and the dates when the limits were exceeded.

(c) The calculated sulfur dioxide emission rate in pounds per hour for each facility exceeding the limitations for the days that the pounds per hour limitations were exceeded.

(d) The calculated sulfur dioxide emission rate in pounds per MMBtu for each combustion unit, furnace, boiler, or process operation for each facility exceeding the pounds per MMBtu limitation for the days that the limitations were exceeded.

(e) The actual daily fuel usage for each combustion unit, furnace, boiler, or process operation for each facility exceeding the limitations for the days that the limitations were exceeded.

Comment 15

Section D.1 Facility Description
USS requests the following corrections:

(a) One (1) coal car bottom thaw shed (holding yard), identified as CHY00071, constructed in 1959, combusting coke oven gas, with a maximum heat input capacity of 25 MMBtu per hour, with an open flame heater, with ~~exhausting~~ uncontrolled fugitive emissions.

(b) One (1) coal car side thaw station, identified as CHT0001, constructed in 1959, combusting natural gas, with a maximum heat input capacity of 15 MMBtu per hour, with an open flame heater, with ~~exhausting~~ uncontrolled fugitive emissions.

Explanation: This correction describes the facility more accurately. The term "exhausting" was deleted because it incorrectly implies the fugitive emissions pass through a mechanical device.

(e) One (1) coal crusher: ~~HiVol~~ system consisting of (3) enclosed hammer mills with a

maximum capacity of 160 tons per hour, ~~LoVol~~ (3) enclosed hammer mills with a maximum capacity of 150 tons per hour, and ~~MidVol~~ (2) enclosed hammer mills with a maximum capacity of 100 tons per hour, with fugitive emissions contained within the ~~that exhausts into the totally enclosed~~ coal blending building.

Explanation: Several types of coal are used in the process besides HiVol, LoVol and MidVol. The facility description was revised because the process is not limited to the coal types listed. The term "exhaust" was deleted because it incorrectly implies the fugitive emissions pass through a mechanical device.

(f) ~~*One (1) crusher, modified in 1999, to be used as a second coal crusher, with a maximum capacity of 1,200 tons per hour when used as a coal crusher. Emissions exhaust to the totally enclosed coal blending building. This operation is a totally enclosed hammer mill.*~~ *One (1) enclosed petroleum coke crusher with a maximum rate of 400 tons per hour which also operates as a coal breaker with a maximum rate of 1200 tons per hour. This unit is a totally enclosed hammer mill with fugitive emissions contained within the coal blending building.*

Explanation: Correct capacity information is provided. The facility description was revised to improve accuracy.

(g) Coal Handling Storage Facilities, identified as ~~emission unit~~ CHSQ0003.

Explanation: The identification number is a process identification number.

(h) One (1) frozen coal breaker, installed in 1959, with a maximum capacity pf 1300 tons per hour, with fugitive emissions contained within the coal blending building.

Explanation: This process is also part of the Coal Handling Operation and was not included in the draft permit.

Response to Comment 15

The descriptions in Condition A.3 and Section D.1 description box are revised as follows:

(a) One (1) coal car bottom thaw shed **(holding yard)**, identified as CHY00071, constructed in 1959, combusting coke oven gas, with a maximum heat input capacity of 25 MMBtu per hour, with an open flame heater, **with** ~~exhausting~~ uncontrolled fugitive emissions.

(b) One (1) coal car side thaw station, identified as CHT0001, constructed in 1959, combusting natural gas, with a maximum heat input capacity of 15 MMBtu per hour, with an open flame heater, **with** ~~exhausting~~ uncontrolled fugitive emissions.

(e) One (1) coal crusher: ~~HiVol~~ **system consisting of three** (3) **enclosed** hammer mills with a maximum capacity of 160 tons per hour, ~~LoVol~~ **three** (3) **enclosed** hammer mills with a maximum capacity of 150 tons per hour, and ~~MidVol~~ **two** (2) **enclosed** hammer mills with a maximum capacity of 100 tons per hour**, with fugitive emissions contained within the** ~~that exhausts into the totally enclosed~~ coal blending building.

(f) ~~One (1) crusher, modified in 1999, to be used as a second coal crusher, with a maximum capacity of 1,200 tons per hour when used as a coal crusher. Emissions exhaust to the totally enclosed coal blending building. This operation is a totally enclosed hammer mill.~~ **One (1) enclosed petroleum coke crusher with a maximum capacity of 400 tons per hour which also operates as a coal breaker with a maximum capacity of 1200 tons**

per hour. This unit is a totally enclosed hammer mill with fugitive emissions contained within the coal blending building.

(g) Coal Handling Storage Facilities, identified as ~~emission unit~~ CHSQ0003.

(h) One (1) frozen coal breaker, installed in 1959, with a maximum capacity pf 1300 tons per hour, with fugitive emissions contained within the coal blending building.

Comment 16

Sections D.1.4 Opacity Limitations and D.1.5 Coke Oven Battery Limitations
USS requests that IDEM replaces D.1.5 with the following item, which would be inserted into Section D.1.4,

(b) Pursuant to 326 IAC 6-1-11.1 and Section C.5 Fugitive Dust Emissions, the fugitive visible emissions from the coal handling area shall comply with the opacity requirements that are applicable.

Explanation: Section D.1.5 limits visible emissions and cites 326 IAC 11-3-2(b), which does not apply to precarbonization towers. The suggested correction provides the correct regulatory citation.

Response to Comment 16

The revised 326 IAC 6 Lake County Particulate Matter Rule citations are included. The permit is revised as shown below in Conditions D.1.3 and D.1.4.

The rule citations are revised to clarify the rules that apply to the precarbonization towers and precarbonization unit. The rules that apply to the precarbonization towers emissions limitations are specifically listed in 326 IAC 6.8-9-3(a)(9)(A) and 326 IAC 11-3-2(a)(1). The specific opacity limit for the precarbonization towers is 326 IAC 6.8-9-3(a)(9)(B). The specific opacity limitation for the precarbonization unit is 326 IAC 11-3-2(a)(2). The coal handling is covered in the fugitive dust sources Section D.16 of this permit. Therefore, the permit is revised as follows:

D.1.3 Coke Oven Batteries Emission Limitations - Precarbonization [326 IAC 6.8-9-3(a)(9)(A)][326 IAC 11-3-2(a)(1)]

(a) Pursuant to 326 IAC 6.8-9-3(a)(9)(A), Particulate emissions from the precarbonization towers shall be limited by the emission limitations contained in 326 IAC 6.8-2-38.

(b) Pursuant to 326 IAC 11-3-2(a)(1), particulate emissions from precarbonization towers shall be limited by the emission limitations determined ~~in condition D.1.1~~ **under 326 IAC 6.8-2-38.**

D.1.4 Opacity Limitations ~~[326 IAC 6-1-10.2(c)(9)(B)]~~ [326 IAC 6.8-9-3(a)(9)(B)]

Pursuant to ~~326 IAC 6-1-10.2(c)(9)(B)~~ 326 IAC 6.8-9-3(a)(9)(B)], the visible emissions from the precarbonization towers shall comply with the requirements set forth in 326 IAC 5.

D.1.5 Coke Oven Batteries Opacity Limitations ~~[326 IAC 11-3-2(b)]~~ **[326 IAC 11-3-2(a)(2)]**

Pursuant to ~~326 IAC 11-3-2(b)~~ **326 IAC 11-3-2(a)(2)**, the visible emissions from any precarbonization unit shall comply with the requirements set forth in 326 IAC 5-1.

Comment 17
Section D.1.6
USS requests the following correction.

> *The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, ~~apply to the facility described in this section~~ petroleum coke crusher while in service as a coal breaker except when otherwise specified in 40 CFR Part 60, Subpart Y.*

Explanation: NSPS only applies to the petroleum coke crusher while in service as a coal breaker.

Response to Comment 17
This condition is revised to specify the equipment that is subject to the requirements of 40 CFR 60, Subpart Y (New Source Performance Standards for Coal Preparation Plants) as determined in Minor Source Modification 089-10551-00121, issued on February 10, 1999.

D.1.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR 60, Subpart A]

> The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the ~~facility described in this section~~ **petroleum coke crusher while in service as a coal breaker** except when otherwise specified in 40 CFR Part 60, Subpart Y.

Comment 18
Section D.1.7
USS requests the following corrections:

> *Pursuant to 40 CFR 60.250 through 60.254, Minor Source Modification 089-10551-00121, issued February 10, 1999, and A 089-11953-00121, issued April 15, 2000, the opacity from the petroleum coke crusher while in service ~~used~~ as a ~~second~~ coal ~~crusher~~ breaker shall not exceed twenty percent (20%).*

Explanation: Minor Source Modification 089-10551-00121 and A 089-11953-00121 apply to the petroleum coke crusher while in service as a coal breaker.

Response to Comment 18
In order to be consistent with the determination made in the Minor Source Modification 089-10551-00121, issued on February 10, 1999 and the administrative amendment 089-11953-00121, issued on April 15, 2000, the permit is revised as follows:

D.1.7 New Source Performance Standards - Opacity Limitations Coal Preparation Plant [326 IAC 12-1][40 CFR 60 Subpart Y]

> Pursuant to 40 CFR 60.250 through 60.254, Minor Source Modification 089-10551-00121, issued February 10, 1999, and A 089-11953-00121, issued April 15, 2000, the opacity from the **petroleum** coke crusher **while in service** ~~used~~ as a ~~second~~ coal ~~crusher~~ **breaker** shall not exceed twenty percent (20%).

Comment 19
Section D.1.8
USS requests the following corrections:

D.1.8 Sulfur Dioxide (SO_2) Limitations [326 IAC ~~7-4-1.1(a)]~~ 7-4.1-20(c)(3)]

> *Pursuant to 326 IAC ~~7-4-1.1(a)~~, 7-4.1-20(c)(3), gaseous fuel sources without specific limitations*

~~fossil fueled sources, the Coal Car Side Thaw Station CHT00001,~~ shall burn natural gas only.

Explanation: The revised text cites the correct regulation,

Response to Comment 19

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.1.8 Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(a)]~~ **[326 IAC 7-4.1-20(c)(3)]**

~~Pursuant to 326 IAC 7-4-1.1(a), fossil fueled sources, the Coal Car Side Thaw Station CHT00001, shall burn natural gas only.~~

Pursuant to 326 IAC 7-4.1-20(c)(3), an emission unit shall burn natural gas only:

(a) If it is not listed in this rule; or

(b) under any operating condition not specifically listed in this rule.

Comment 20

Section D.1.9
USS requests the following corrections:

D.1.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and any associated control devices~~ the emissions control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 20

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the

entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the Commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section."

Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the Coke Battery Precarbonization facilities themselves because lack of proper maintenance on the Coke Battery Precarbonization units can result in increased emissions. Therefore, the permit is not revised as a result of this comment.

Comment 21

Section D.1.10, item (a)
USS requests the following corrections:

> *Pursuant to the COMS Waiver ~~protocol~~ issued ~~)~~ by IDEM May 16, 1997, ~~incorporated as Exhibit C of the Agreed Order issued March 22, 1996,~~ this performance test schedule is the alternative monitoring requirement for the Precarbonization Units ~~Systems at Gary Coke Division~~, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031, as required by 326 IAC 6-1-10.1(g)(3).*

Explanation: The COMS Waiver established testing frequency, not testing protocol.

Response to Comment 21

To clarify which document established the testing schedule and which established the testing protocol, the permit is revised as follows:

Section D.1.10 Testing Requirements

(a) Pursuant to the **COMS Waiver** ~~protocol~~ issued by IDEM May 16, 1997, ~~incorporated as Exhibit C of the Agreed Order issued March 22, 1996~~, this performance test schedule is the alternative monitoring requirement for the Precarbonization **Units** ~~Systems at Gary Coke Division~~, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031, as required by 326 IAC 6.8-5-1(b)(3).

Comment 22

Section D.1.10, item (b)
USS requests the following corrections:

> *Pursuant to the protocol ~~issued by IDEM May 16, 1997,~~ incorporated as Exhibit C of the Agreed Order issued March 22, 1996 the Permittee shall conduct the performance test for Particulate Matter, to demonstrate compliance by measuring combined filterable and condensable emissions utilizing Method 5 and Method 202 of 40 CFR 60 Appendix A or other methods as approved by the Commissioner.*

Response to Comment 22

To clarify which document established the testing schedule and which established the testing protocol, the permit is revised as follows:

D.1.10 Testing Requirements

(b) Pursuant to the protocol~~, issued by IDEM May 16, 1997,~~ incorporated as Exhibit C of the Agreed Order issued March 22, 1996, the Permittee shall conduct the performance test for Particulate Matter, to demonstrate compliance by measuring combined filterable and condensable emissions utilizing Method 5 and Method 202 of 40 CFR 60 Appendix A or other methods as approved by the Commissioner.

Comment 23

Section D.1.10, item (d)
USS requests the following corrections:

Pursuant to the COMS Waiver ~~a protocol~~ dated May 16, 1997 incorporated ~~by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996~~, for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively The Permittee shall conduct performance test in accordance with (b) and (c) above for PM_{10} emissions ~~within a period of six)(6) months of last compliant test.; This performance test shall be repeated within a period of six (6) months of the date of the last compliant test for the life of the precarbonization lines.~~ All tests shall be performed in accordance with Section C – Performance Testing.

Explanation: This condition was corrected because it is inconsistent with the COMS Waiver. Since COMS Waiver established a complex testing frequency and schedule, it should simply be referenced in the permit condition.

Response to Comment 23

D.1.10 Testing Requirements

(d) Pursuant to **the COMS Waiver** ~~a protocol~~ dated May 16, 1997 ~~incorporated by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996, for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively~~ **t** ~~T~~he Permittee shall conduct performance test**s on the Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3** in accordance with (b) and (c) above for PM_{10} emissions **using the schedule and testing frequency established in the COMS Waiver.** ~~within a period of six)(6) months of last compliant test.; This performance test shall be repeated within a period of six (6) months of the date of the last compliant test for the life of the precarbonization lines.~~ All tests shall be performed in accordance with Section C – Performance Testing.

Comment 24

Section D.1.11, items (a) and (b)

(a) The No. 2 Coke Battery Precarbonization ESPs CH3029, CH3030 and/or CH3031, shall be in operation for PM_{10} control at all times the No. 2 Coke Battery Precarbonization lines A, B and/or C are in operation.

(b) The No. 3 Coke Battery Precarbonization ESPs CH3026, CH3027 and/or CH3028 shall be in operation for PM_{10} control at all times the No. 3 Coke Battery Precarbonization lines A, B and/or C are in operation.

Explanation: Precarbon lines can damper or crossover to feed any of the three electrostatic precipitators.

Response to Comment 24

To clarify that any precarbon line can damper or crossover feed any ESP, the permit is revised as follows:

D.1.11 Particulate Matter Control

(a) The No. 2 Coke Battery Precarbonization ESPs CH3029, CH3030 and**/or** CH3031, shall be in operation for PM_{10} control at all times the No. 2 Coke Battery Precarbonization lines A, B and/**or** C are in operation.

(b) The No. 3 Coke Battery Precarbonization ESPs CH3026, CH3027 and/**or** CH3028 shall be in operation for PM_{10} control at all times the No. 3 Coke Battery Precarbonization lines A, B and/**or** C are in operation.

Comment 25

Section D.1.12
USS requests the following corrections:

D.1.12 ~~Transformer-Rectifier (T-R) Sets~~ Nos. 2 and 3 Precarbonization [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The ability of the ESPs CH3029, CH3030, and CH3031 to control particulate emissions shall be ~~monitored once per shift, when the No. 2 Coke Battery Precarbonization Line A, B and C are in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets~~. In accordance with the Compliance Monitoring Plan required under the COMS Waiver issued by IDEM May 16, 1997.

~~b) The ability of the ESPs, CH3026, CH3027 and CH3028 to control particulate emissions shall be monitored once per shift, when the No. 3 Coke Battery Precarbonization Lines A, B and C are in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.~~

(b)~~(c)~~ Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - ~~Preparation, Implementation, Records and Reports~~ or corrective actions shall be taken in accordance with the Compliance Monitoring Plan required by the COMS Waiver whenever the parameters fall outside the normal operating range as set forth in the Compliance Monitoring Plan. An out of range parameter is not a deviation from this permit. ~~percentage of T-R sets in service falls below 90 percent. T-R set failure resulting in less than 90 percent availability is not a deviation from this permit.~~ Failure to taken response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, or corrective actions in accordance with the Compliance Monitoring Plan shall be considered a deviation of this permit.

Explanation: T-R values are irrelevant to this permit. The COM Waiver contains a Compliance Monitoring plan that establishes all required parameters for the operation. The Compliance Monitoring Plan is maintained at the facility and quarterly reports are submitted.

Response to Comment 25

After further review, IDEM has determined that the COMs Wavier Monitoring Plan contains all the required parameters for the Precarbonization operations. Therefore, the permit is revised as follows:

D.1.12 ~~Transformer-Rectifier (T-R) Sets~~ **Nos. 2 and 3 Precarbonization** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The ability of the ESPs CH3029, CH3030, and CH3031 to control particulate emissions shall be monitored ~~once per shift, when the No. 2 Coke Battery Precarbonization Line A, B and C are in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.~~ **in accordance with the Compliance Monitoring Plan required under the COMS Waiver issued by IDEM May 16, 1997.**

(b) The ability of the ESPs, CH3026, CH3027 and CH3028 to control particulate emissions shall be monitored ~~once per shift, when the No. 3 Coke Battery Precarbonization Lines A, B and C are in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.~~ **in accordance with the Compliance Monitoring Plan required under the COMS Waiver issued by IDEM May 16, 1997.**

(c) Reasonable response steps shall be taken in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records and Reports~~ **Response to Excursions or Exceedances or corrective actions shall be taken in accordance with the COMS Waiver Compliance Monitoring Plan whenever the parameters fall outside the normal operating range as set forth in the Compliance Monitoring Plan. An out of range parameter is not a deviation from this permit.** Failure to taken response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances or the COMS Waiver Compliance Monitoring Plan** shall be considered a deviation of this permit.

Comment 26

Section D.1.13, item (a)
USS requests the following corrections:

(a) ~~The following inspections shall be performed at least once every two years in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:~~

~~(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;~~

~~(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:~~

~~(A) Internal inspection of shell for corrosion (i.e., doors, hatches, insulator housing, roof area).~~
~~(B) Effectiveness of rapping (i.e., buildup of dust on discharge electrodes and plates).~~
~~(C) Gas Distribution (i.e., buildup of dust on distribution plates and turning vanes).~~
~~(D) Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion.)~~
~~(E) Major misalignment of plates (i.e., visual checks of plate alignment).~~
~~(F) Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)~~
~~(G) Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)~~
~~(H) Vibrator and rapper seals (i.e., air in-leakage, wear, and deterioration)~~
~~(I) TR set controllers (i.e., low voltage trip point, over current trip, spark rate, etc.)~~
~~(J) Vibrator air pressure settings~~

~~(3) Air and water infiltration, once/month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.~~

(a) Pursuant to 326 IAC 6-1-10.1(n) and (p), inspections shall be performed in accordance with the Continuous Compliance Plan (CCP).

Explanation: The permit condition was corrected to be consistent with the regulations. The origination of the redline permit condition is unclear.

Response to Comment 26

Upon further review, IDEM has determined that the Continuous Compliance Plan in 326 IAC 6.8-8 includes routine control device inspection requirements in the applicable Continuous Compliance Plan for ESPs. Since the frequency of control device inspections and the details regarding which components of the control device should be inspected are listed in the Continuous Compliance Plan, the additional conditions in D.1.13 requiring Electrostatic Precipitator inspections and the associated record keeping have been removed from the permit.

~~D.1.13 Preventive Inspections: Electrostatic Precipitator [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

~~(a) The following inspections shall be performed at least once every two years in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:~~

~~(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;~~

~~(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:~~

~~(A) Internal inspection of shell for corrosion (i.e., doors, hatches, insulator housing, roof area).~~
~~(B) Effectiveness of rapping (i.e., buildup of dust on discharge electrodes and plates).~~

~~(C) Gas Distribution (i.e., buildup of dust on distribution plates and turning vanes).~~
~~(D) Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion.)~~
~~(E) Major misalignment of plates (i.e., visual checks of plate alignment).~~
~~(F) Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)~~
~~(G) Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)~~
~~(H) Vibrator and rapper seals (i.e., air in-leakage, wear, and deterioration)~~
~~(I) TR set controllers (i.e., low voltage trip point, over current trip, spark rate, etc.)~~
~~(J) Vibrator air pressure settings~~

~~(3) Air and water infiltration, once/month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.~~

~~(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit.) Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.~~

Comment 27

Section D.1.14, item (a)
USS requests the following corrections:

(a) To document compliance with Condition D.1.10, the Permittee shall maintain records of the stack tests conducted in accordance with COMS Waiver for Nos. 2 and 3 Precarbons ~~relevant parameters which are indicative of process and control device operation for the life of the Nos. 2 and 3 Coke Battery Precarbonization facilities as observed during previous compliant stack test. .~~

Explanation: Section D.1.10 contains testing requirements, not parametric monitoring requirements. Only reports are required for the life of the facility under the COMS Waiver.

Response to Comment 27

Condition D.1.14 is renumbered D.1.13

To clarify what records need to be maintained, the permit is revised as follows:

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.10, the Permittee shall maintain records of the **stack tests conducted in accordance with COMS Waiver for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3.** ~~relevant parameters which are indicative of process and control device operation for the life of the Nos. 2 and 3 Coke Battery Precarbonization facilities as observed during previous compliant stack test. .~~

Comment 28

Section D.1.14, item (b)
USS requests the following corrections:

> *(b) To document compliance with the Condition D.1.12, the Permittee shall maintain records of the parametric monitoring required under the COMS Waiver Compliance Monitoring Plan for the Nos. 2 and 3 Precarbons. ~~once per shift monitoring of the number T-R Sets in service.~~*

Explanation: This condition should include all required parametric monitoring for Nos. 2 and 3 Precarbons.

Response to Comment 28

After further review IDEM has determined the COMs Waiver contains the requirements for monitoring and record keeping for the Nos. 2 and 3 Precarbons. Therefore, the permit is revised as follows:

D.1.13 Record Keeping Requirements

> (b) To document compliance with the Condition D.1.12, the Permittee shall maintain records of the **parametric monitoring required under the COMS Waiver Compliance Monitoring Plan for the Nos. 2 and 3 Precarbons**. ~~once per shift monitoring of the number T-R Sets in service.~~

Comment 29

Section D.1.14, item (c)
USS requests the following corrections:

> *(c) To document compliance with Condition D.1.13, the Permittee shall maintain records of the inspections required in the Continuous Compliance Plan. ~~in Condition D.1.13.~~*

Response to Comment 29

See IDEM's response to Comment 26

D.1.13 Record Keeping Requirements

> ~~(c) To document compliance with Condition D.1.13, the Permittee shall maintain records of the inspections required in Condition D.1.13.~~

Comment 30

Section D.1.14, item (d)
USS requests the following corrections:

> (d) *To document compliance with Condition D.1.9, the Permittee shall maintain of records of any ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.*

Response to Comment 30

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance.

However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

D.1.~~14~~**13** Record Keeping Requirements

(a) To document compliance with Condition D.1.10, the Permittee shall maintain records of the stack tests conducted in accordance with COMS Waiver for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3.

(b) To document compliance with the Condition D.1.12, the Permittee shall maintain records of the parametric monitoring required under the COMS Waiver Compliance Monitoring Plan for the Nos. 2 and 3 Precarbons.

~~(c) To document compliance with Condition D.1.13, the Permittee shall maintain records of the inspections required in Condition D.1.13.~~

~~(d) To document compliance with Condition D.1.9, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(e~~**) (c)** All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

Comment 31

Section D.1.15

Pursuant to ~~a protocol incorporated May 16, 1997 by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996 and condition D.1.1~~, the COMS Waiver issued by IDEM May 16, 1997, the Permittee shall submit quarterly reports on relative parameters which are indicative of process and control device operation ~~when compared to observed in previous compliant stack tests~~ for the life of the Nos. 2 and 3 Coke Battery Precarbonization facilities. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Explanation: There are no comparisons made of parameters during each stack test. Only initial ranges were verified to develop the Compliance Monitoring Plan per the COM Waiver

Response to Comment 31

Condition D.1.15 is renumbered D.1.14.

To clarify what is to be reported quarterly, the permit is revised as follows:

Pursuant to ~~a protocol incorporated May 16, 1997 by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996 and condition D.1.1,~~ **the COMS Waiver issued by IDEM May 16, 1997,** the Permittee shall submit quarterly reports on relative parameters which are indicative of process and control device operation ~~when compared to observed in previous compliant stack tests~~ for the life of the Nos. 2 and 3 Coke Battery Precarbonization facilities. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Comment 32

Section D.2 Facility Description
USS requests the following corrections:

(a) No. 2 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No. 2 Coke Battery, identified as CP2B0079, constructed in November ~~1973~~, 1975 with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3060, CP3061 and CP3062, exhausting to Bypass/Bleeder Flare Stacks CP6105, CP6106 and CP6107.

Explanation: Correction on the construction year.

(2) The No. 2 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~198~~ 250 MMBtu per hour, exhausting to stack CP6040 equipped with a continuous opacity monitor (COM).

Explanation: Providing corrections to the heat input capacity of the batteries.

(3) The No. 2 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car ~~2-9121~~,9119, 9120, 9121 or 9122 identified as CP3034, exhausting to Stack CP6041.

Explanation: Any of these four scrubber cars can service the Nos. 2 and 3 Coke Batteries.

(4) Nos. 2 and 3 Quench Towers identified as CP1Q0080 and CP2Q0081, constructed in 1975, with a maximum combined capacity of 322 tons of coke per hour and No. 1 Quench Tower identified as CPQ0087 constructed in 1975with a capacity of 322 tons of coke per hour, each equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No.1 Quench Tower services Nos. 2, 3. 5 and 7 Coke Batteries. ~~These towers service Nos. 2 and 3 Coke Batteries.~~

Explanation: Correction to the description of the quench towers.

Response to Comment 32

The descriptions in Condition A.3 and description box in Section D.2.2(a) are revised as follows:

(a) No. 2 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No. 2 Coke Battery, identified as CP2B0079, constructed in November ~~1973~~, **1975** with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3060, CP3061 and CP3062, exhausting to Bypass/Bleeder Flare Stacks CP6105, CP6106 and CP6107.

(2) The No. 2 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~198~~ **250** MMBtu per hour, exhausting to stack CP6040 equipped with a continuous opacity monitor (COM).

(3) The No. 2 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour,

with particulate emissions controlled by a Mobile Scrubber Car ~~2 9121~~ **9119, 9120, 9121 or 9122,** identified as CP3034, exhausting to Stack CP6041.

(4) Nos. 2 and 3 Quench Towers identified as CP1Q0080 and CP2Q0081, constructed in 1975, with a maximum combined capacity of 322 tons of coke per hour, **and No. 1 Quench Tower identified as CPQ0087 constructed in 1975 with a capacity of 322 tons of coke per hour,** each equipped with a quench water header and baffle system with sprays**. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No.1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.** ~~These towers service Nos. 2 and 3 Coke Batteries.~~

Comment 33

Section D.2 Facility Description
USS requests the following corrections:

(b) No. 3 Coke Battery

(2) The No. 3 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~198~~ 250 MMBtu per hour, exhausting to stack CP6045, equipped with a continuous opacity monitor (COM).

Explanation: Providing corrections to the heat input capacity of the batteries.

(3) The No. 3 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car ~~3 9122~~, 9119, 9120, 9121 or 9122, identified as CP3038, exhausting to stack CP6046.

Explanation: Any of these four scrubber cars can service the Nos. 2 and 3 Coke Batteries.

(4) The No. 1 Quench Tower, identified as CP3Q0087, constructed in 1975, with a maximum capacity of 322 tons of coke per hour and Nos. 2 and 3 Quench Towers, identified as CP1Q0080 and CP2Q0081 constructed in 1975 with a maximum capacity of 322 tons of coke per hour , equipped with a quench water header and baffle system with sprays. Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No. 1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries. ~~This tower services Nos. 2, 3, 5 and 7 Coke Batteries~~.

Explanation: Correction to the description of the quench towers.

Response to Comment 33

IDEM received a letter from US Steel Corporation dated September 12, 2005, stating the No 3 Coke Battery at US Steel Gary Works had reached the end of its useful and economic life. The No. 3 Coke Battery would cease operation on or about October 1, 2005. US Steel Gary Works can request a permit modification to remove the No. 3 Coke Battery and associated processes and equipment when these facilities cease operation.

The descriptions in Condition A.3 and description box in Section D.2.2(b) are revised as follows:

(b) No. 3 Coke Battery

(2) The No. 3 Coke Battery underfiring system has a maximum combustion heat input

capacity of ~~198~~ **250** MMBtu per hour, exhausting to stack CP6045, equipped with a continuous opacity monitor (COM).

(3) The No. 3 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car ~~*3-9122*~~*,* **9119, 9120, 9121 or 9122**, identified as CP3038, exhausting to stack CP6046.

(4) The No. 1 Quench Tower, identified as CP3Q0087, constructed in 1975, with a maximum capacity of 322 tons of coke per hour **and Nos. 2 and 3 Quench Towers, identified as CP1Q0080 and CP2Q0081 constructed in 1975 with a maximum capacity of 322 tons of coke per hour**, equipped with a quench water header and baffle system with sprays. **Nos. 2 and 3 Quench Towers service Nos. 2 and 3 Coke Batteries. No. 1 Quench Tower services Nos. 2, 3, 5 and 7 Coke Batteries.** ~~This tower services Nos. 2, 3, 5 and 7 Coke Batteries.~~

Comment 34

Section D.2 Facility Description
USS requests the following corrections:

(c) No. 5 Coke Battery

(2) The No. 5 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~115~~ 125 MMBtu per hour, exhausting to stack CP6049, equipped with a COM.

(d) No. 7 Coke Battery

(2) The No. 7 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~115~~ 125 MMBtu per hour, exhausting to stack CP6053 equipped with a COM.

Explanation: Providing the corrections to the heat input capacity of the batteries.

Response to Comment 34

The descriptions in Condition A.3 and description box in Section D.2.2(c) and (d) are revised as follows:

(c) No. 5 Coke Battery

(2) The No. 5 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~115~~ **125** MMBtu per hour, exhausting to stack CP6049, equipped with a COM.

(d) No. 7 Coke Battery

(2) The No. 7 Coke Battery underfiring system has a maximum combustion heat input capacity of ~~115~~ **125** MMBtu per hour, exhausting to stack CP6053 equipped with a COM.

Comment 35

(e) Natural Gas Underfiring Injection System Jets

Three (3) natural gas injection jets, identified as CPNGI001, CPNGI002 and CPNGI003,

constructed in 2001, with heat input capacities of 22 MMBtu per hour, 43 MMBtu per hour and 122 MMBtu per hour, respectively. Natural gas injection ~~provided~~ provides Btu stabilization control, coke oven gas quality control and emergency gas supply to the battery ~~unfiring~~ underfiring system.

Explanation: Providing corrections to the description of the system.

Response to Comment 35

The descriptions in Condition A.3 and description box in Section D.2.2(e) are revised as follows:

(e) Natural Gas Underfiring Injection System Jets

Three (3) natural gas injection jets, identified as CPNGI001, CPNGI002 and CPNGI003, constructed in 2001, with heat input capacities of 22 MMBtu per hour, 43 MMBtu per hour and 122 MMBtu per hour, respectively. Natural gas injection ~~provided~~ **provides** Btu stabilization control, coke oven gas quality control and emergency gas supply to the battery ~~unfiring~~ **underfiring** system.

Comment 36

Section D.2.2, item (a)(1)-(6)
USS requests the following corrections:

(1) Four and three-tenths percent (4.3%) leaking coke oven doors for each tall 6 meter by-product coke oven battery, based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303,

(2) Three and eight-tenths percent (3.8%) leaking coke oven doors for each short 3 meter by-product coke oven based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303,

(3) Four-tenths percent (0.4%) leaking topside port lids based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303,

;

(4) ~~(3)~~ Two and five-tenths percent (2.5%) leaking off take systems based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303,

(5) ~~(4)~~ Twelve (12) seconds of visible emissions per charge based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303

(6) ~~(5)~~ On or after January 1, 2010, unless the US EPA or IDEM, OAQ promulgates more stringent limits pursuant to section 112(i)(8)(C) of Clean Air Act (CAA); the limit for each tall by-product coke oven battery, shall be four percent (4%) leaking coke oven doors and the limit for each short 3-meter coke oven battery shall be three and three-tenths (3.3%) leaking coke oven doors based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.

Explanation: Clarification of the limitation basis is necessary for items (1)-(6) of this condition. These limitations, as stated imply an instantaneous limitation which is gravely more stringent than the federal NESHAP limitations.

Response to Comment 36

To clarify the limitations are not instantaneous and add the basis for the limits, Condition D.2.2(a) is revised as follows:

(1) Four and three-tenths percent (4.3%) leaking coke oven doors for each tall 6 meter by-product coke oven battery, **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

(2) Three and eight-tenths percent (3.8%) leaking coke oven doors for each short 3 meter by-product coke oven **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

(3) Four-tenths percent (0.4%) leaking topside port lids, **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

(4) Two and five-tenths percent (2.5%) leaking off take systems, **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

(5) Twelve (12) seconds of visible emissions per charge, **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

(6) On or after January 1, 2010, unless the US EPA or IDEM, OAQ promulgates more stringent limits pursuant to section 112(i)(8)(C) of Clean Air Act (CAA); the limit for each tall **6-meter** by-product coke oven battery, shall be four percent (4%) leaking coke oven doors and the limit for each short 3-meter coke oven battery shall be three and three-tenths (3.3%) leaking coke oven doors, **based on a 30-day rolling average in accordance with 40 CFR 63, Appendix A, Method 303.**

Comment 37

Section D.2.2, item (b)
USS requests the following corrections:

(b) Pursuant to 40 CFR 63.306, Work Practice Standards, the Permittee shall maintain, a written emission control work practice plan for each coke oven battery. The plan shall be designed to achieve compliance with visible emission limitations for coke oven doors, topside port lids, off take systems, and charging operations under 40 CFR 63 Subpart L ~~or, for a coke oven battery not subject to visible emission limitations under 40 CFR 63 Subpart L, other federally enforceable visible emission limitations for these emission points.~~

Explanation: This facility is subject to VE limitations under 40 CFR 63, Subpart L.

Response to Comment 37

To clarify that this facility is subject to the VE limitations under 40 CFR 63, Subpart L, the permit is revised as follows:

D.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) – Coke Oven

(b) Pursuant to 40 CFR 63.306, Work Practice Standards, the Permittee shall maintain, a written emission control work practice plan for each coke oven battery. The plan shall be

designed to achieve compliance with visible emission limitations for coke oven doors, topside port lids, off take systems, and charging operations under 40 CFR 63 Subpart L ~~or, for a coke oven battery not subject to visible emission limitations under 40 CFR 63 Subpart L, other federally enforceable visible emission limitations for these emission points.~~

Comment 38

Section D.2.2, item (b)(5)(B)
USS requests the following corrections:

(B) Continue to implement such plan provisions until the visible emission limitation for the emission point is achieved for 90 consecutive days if work practice requirements are implemented pursuant to 40 CFR 63.306(c)(1)(i) ~~of this section~~. After the visible emission limitation for a particular emission point is achieved for 90 consecutive days, any exceedances prior to the beginning of the 90 days are not included in making a determination 40 CFR 63.306(c)(1)(i).

Explanation: Referencing rule citation.

Response to Comment 38

To avoid confusion the reference to the citation (of this section) is deleted. The permit is revised as follows:

D.2.2 (b) (5)(B)

(B) Continue to implement such plan provisions until the visible emission limitation for the emission point is achieved for 90 consecutive days if work practice requirements are implemented pursuant to 40 CFR 63.306(c)(1)(i) ~~of this section~~. After the visible emission limitation for a particular emission point is achieved for 90 consecutive days, any exceedances prior to the beginning of the 90 days are not included in making a determination 40 CFR 63.306(c)(1)(i)

Comment 39

Section D.2.2, item (b)(6)(F)
USS requests the following corrections:

(F) The IDEM, OAQ may disapprove a plan revision required under 40 CFR 63.306(d) if the IDEM, OAQ determine that the revised plan is inadequate to prevent exceedances of the visible emission limitation under 40 CFR 63 Subpart L for the emission point for which a plan revision is required ~~or, in the case of a battery not subject to visual emission limitations under this subpart, other federally enforceable emission limitations for such an emission point.~~ The IDEM, OAQ may also disapprove the finding that may be submitted pursuant to the 40 CFR 63.303(d)(3) if the IDEM, OAQ determine that a revised plan is needed to prevent exceedances of the applicable visible emission limitations.

Explanation: This facility is subject to VE limitations under 40 CFR 63, Subpart L.

Response to Comment 39

To clarify that this facility is subject to the VE limitations under 40 CFR 63, Subpart L, the permit is revised as follows:

D.2.2 (b) (6)(F)

(F) The IDEM, OAQ may disapprove a plan revision required under 40 CFR 63.306(d) if the IDEM, OAQ determine that the revised plan is inadequate to prevent exceedances of the visible emission limitation under 40 CFR 63 Subpart L for the emission point for which a plan revision is required. ~~or, in the case of a battery not subject to visual emission limitations under this subpart, other federally enforceable emission limitations for such an emission point.~~ The IDEM, OAQ may also disapprove the finding that may be submitted pursuant to the 40 CFR 63.303(d)(3) if the IDEM, OAQ determine that a revised plan is needed to prevent exceedances of the applicable visible emission limitations.

Comment 40

Section D.2.2, items (c)(4), (c)(6) and (c)(7)
USS requests the following corrections:

(4) Each flare shall have either a continuously operable pilot flame or an electronic igniter that meets the requirements of D.2.2 (c)~~(6) and (c)(7)~~ (5) and (6) below.

Explanation: Correction of citation.

~~(7)~~ (6) Each flare constructed that does not have an electronic igniter shall be operated with a pilot flame present at all times as determined by 40 CFR 63.309 (h)(2).

Explanation: Numbering correction

~~(8)~~ (7) Each flare constructed to meet the requirements of 40 CFR 63.307(b) shall be operated with no visible emissions, as determined by the methods specified in 40 CFR 63.309 (h)(1), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Explanation: Numbering correction

Response to Comment 40

The reference number and numbering are revised as follows:

D.2.2 (c)(4), (c)(6), (c)(7)

(4) Each flare shall have either a continuously operable pilot flame or an electronic igniter that meets the requirements of D.2.2 (c)~~(6) and (c)(7)~~ **(5) and (6)** below.

~~(7)~~ **(6)** Each flare constructed that does not have an electronic igniter shall be operated with a pilot flame present at all times as determined by 40 CFR 63.309 (h)(2).

~~(8)~~ **(7)** Each flare constructed to meet the requirements of 40 CFR 63.307(b) shall be operated

with no visible emissions, as determined by the methods specified in 40 CFR 63.309 (h)(1), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Comment 41

Section D.2.2, Item (d)(1)
USS requests the following correction.

(1) Inspect the coke oven battery collecting main for leaks at least once daily in accordance with 40 CFR Appendix A, Method 303.

Explanation: Clarification of rule language to avoid translation errors.

Response to Comment 41

This change clarifies the method used for inspecting the coke oven door leaks and adds the language from the rule. Therefore the permit is revised as follows:

D.2.2 (d)(1)

(1) Inspect the coke oven battery collecting main for leaks at least once daily **in accordance with 40 CFR 63, Appendix A, Method 303.**

Comment 42

Section D.2.2, Item (e)(1)
USS requests the following correction.

(1) Operate and maintain the coke oven batteries and their pollution control devices at all times including periods of startup, shut down and malfunction in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under 40 CFR 63, Subpart L. Failure to adhere to these requirements shall not constitute a separate violation, if a violation of an applicable performance or work practice standard has also occurred.

Explanation: Clarifying exact rule language to avoid translation errors.

Response to Comment 42

This change clarifies the requirements for startups, shut downs and malfunctions and adds the exact language from the rule. Therefore the permit is revised as follows:

D.2.2 (e)(1)

(1) Operate and maintain the coke oven batteries and their pollution control devices at all times including periods of startup, shut down and malfunction **in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under 40 CFR 63, Subpart L. Failure to adhere to these requirements shall not constitute a separate violation, if a violation of an applicable performance or work practice standard has also occurred.**

Comment 43

Section D.2.2, Item (e)(2)
USS requests the following correction.

> *(2) Develop and implement a written startup, shut down and malfunction plan that describes procedures for operating the batteries, including associated control equipment, during a period of a startup, shutdown or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and control equipment as quickly as practicable. ~~Failure to adhere to these requirements shall not constitute a separate violation, if a violation of an applicable performance or work practice standard has also occurred.~~*

Explanation: Clarifying exact rule language to avoid translation errors.

Response to Comment 43

The requested language deletion clarifies the exact language of the rule. Therefore the permit is revised as follows:

D.2.2 (e)(2)

> (2) Develop and implement a written startup, shut down and malfunction plan that describes procedures for operating the batteries, including associated control equipment, during a period of a startup, shutdown or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and control equipment as quickly as practicable. ~~Failure to adhere to these requirements shall not constitute a separate violation, if a violation of an applicable performance or work practice standard has also occurred.~~

Comment 44

Section D.2.2, Item (e)(3)(C)
USS requests the following correction.

> *(C) ~~Notify, with respect to the observation (or set of observations) for a particular day, the following of a startup, shutdown or malfunction~~: In order for the provisions of D.2.2(E)(H) to apply with respect to the observation or set of observations for a particular day, notification of a startup, shutdown or malfunction shall be made by the permittee as follows:*

Explanation: If rule language is to be recited in this permit, USS wishes to remain as consistent as possible with the exact rule language to avoid translation errors.

Response to Comment 44

The requested language deletion clarifies the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(C)

> (C) ~~Notify, with respect to the observation (or set of observations) for a particular day, the following of a startup, shutdown or malfunction:~~ **In order for the provisions of**

D.2.2(e)(3)(H) to apply with respect to the observation or set of observations for a particular day, notification of a startup, shutdown or malfunction shall be made by the Permittee as follows:

Comment 45

Section D.2.2, Item (e)(3)(D)
USS requests the following correction.

(D) Submit within 14 days of the notification made to the certified observer ~~and~~ or enforcement agency, or after a startup or shutdown ~~shall submit~~ a written report to the IDEM, that describes the following:

Explanation: Clarifying the exact rule language to avoid translation errors.

Response to Comment 45

The language changes clarify the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(D)

(D) **The Permittee shall** ~~S~~submit **a written report to the IDEM** within 14 days ~~of the notification~~ **of a startup, shutdown or malfunction** ~~to the certified observer and **or** enforcement agency, or after a startup or shutdown shall submit a written report to the IDEM~~ that describes the following:

Comment 46

Section D.2.2, Item (e)(3)(E)
USS requests the following correction.

(E) Maintain a record of internal reports ~~that are based on~~ which form the basis of each malfunction notification.

Explanation: Clarifying the exact rule language to avoid translation errors.

Response to Comment 46

The language changes clarify the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(E)

(E) Maintain a record of internal reports ~~that are based on~~ **which form the basis of** each malfunction notification.

Comment 47

Section D.2.2, Item (e)(3)(F)
USS requests the following correction.

(F) The Permittee may use ~~Use~~ the standard operating procedures manual for the batteries, to satisfy the requirements to develop a startup, shutdown or malfunction plan provided the manual meets all the requirements for the SSM plan and is made available for

inspection at reasonable times when requested by the IDEM, OAQ.

Explanation: Clarifying the exact rule language to avoid translation errors.

Response to Comment 47

The language changes clarify the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(F)

(F) **The Permittee may use** ~~Use~~ the standard operating procedures manual for the batteries, to satisfy the requirements to develop a startup, shutdown or malfunction plan provided the manual meets all the requirements for the SSM plan and is made available for inspection at reasonable times when requested by the IDEM, OAQ.

Comment 48

Section D.2.2, Item (e)(3)(G)
USS requests the following correction

(G) ~~*Revise as directed by IDEM, OAQ*~~ *IDEM may require reasonable revisions of the startup, shutdown or malfunction plan if the plan:*

Explanation: Clarifying the exact rule language to avoid translation errors.

Response to Comment 48

The language changes clarify the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(G)

(G) ~~Revise as directed by IDEM, OAQ~~ **IDEM may require reasonable revisions** of the startup, shutdown or malfunction plan if the plan:

Comment 49

Section D.2.2, Item (e)(3)(H)(i)
USS requests the following correction

(i) Constitute a violation of relevant requirements of ~~this subpart~~;40 CFR 63, Subpart L.

Explanation: Clarifying the exact rule language to avoid translation errors.

Response to Comment 49

The language changes clarify the exact rule language. Therefore the permit is revised as follows:

D.2.2 (e)(3)(H)(i)

(i) Constitute a violation of relevant requirements of ~~this subpart~~;**40 CFR 63, Subpart L.**

Comment 50

Section D.2.3, Items (d) - (l)
USS requests the following corrections:

(d) *Pursuant to 40 CFR 63.7290, the Permittee shall meet each emission limitation that applies to the capture systems and control devices for pushing emissions from No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery. The Permittee must comply with these requirements on and after April 14, 2006.*

(e) *Pursuant to 40 CFR 63.7291, the Permittee shall meet each work practice standard for fugitive pushing emissions for by-product oven batteries with vertical flues that applies to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery. The Permittee must comply with these requirements on and after April 14, 2006.*

(f) *Pursuant to 40 CFR 63.7294, the Permittee shall meet each work practice standard for soaking that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery. The Permittee must comply with these requirements on and after April 14, 2006.*

(g) *Pursuant to 40 CFR 63.7295, the Permittee shall meet each requirement for quenching that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery. The Permittee must comply with these requirements on and after April 14, 2006.*

(h) *Pursuant to 40 CFR 63.7296, the Permittee shall meet each emission limitation for No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.*

(i) *Pursuant to 40 CFR 63.7300, the Permittee shall meet each operation and maintenance requirement that applies to No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment. The Permittee must comply with these requirements on and after April 14, 2006.*

(j) *Pursuant to 40 CFR 63.7310(c), the Permittee shall develop and implement a written start-up, shutdown and malfunction plan. During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7336(b). The Permittee must comply with these requirements on and after April 14, 2006.*

(k) *Pursuant to 40 CFR 63.7330, the Permittee shall meet each monitoring requirement that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment. The Permittee must comply with these requirements on and after April 14, 2006.*

(l) *Pursuant to 40 CFR 63.7331, the Permittee shall meet each requirement regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR Part 63, Subpart CCCCC that applies to No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment. The Permittee must comply with these requirements on and after April 14, 2006.*

Explanation: Providing clarification of applicability deadline. As stated items (d) – (l) of this condition imply that these requirements are immediately applicable.

Response to Comment 50

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

~~D.2.3 National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching and Battery Stacks- Emission Limitations [40 CFR Part 63, Subpart CCCCC]~~

~~(a) The provisions of 40 CFR Part 63, Subpart CCCCC (National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching and Battery Stacks) apply to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery. A copy of this rule is available on the U.S. EPA Air Toxics Website at http://www.epa.gov/ttn/atw/eparules.html . The Permittee must comply with these requirements on and after April 14, 2006.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition, except as otherwise provided in this condition. The permit shield applies to Condition D.2.30, National Emission Standards for Hazardous Air Pollutants from Coke Ovens: Pushing, Quenching and Battery Stacks – Notification Requirements. – Reporting Requirements for Coke Oven Batteries.~~

~~(c) Terminology used in this section are defined in the CAA, 40 CFR Part 63, Section 63.2, and in 40 CFR 63.7352 are applicable to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(d) Pursuant to 40 CFR 63.7290, the Permittee shall meet each emission limitation that applies to the capture systems and control devices for pushing emissions from No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(e) Pursuant to 40 CFR 63.7291, the Permittee shall meet each work practice standard for fugitive pushing emissions for by-product oven batteries with vertical flues that applies to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(f) Pursuant to 40 CFR 63.7294, the Permittee shall meet each work practice standard for soaking that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(g) Pursuant to 40 CFR 63.7295, the Permittee shall meet each requirement for quenching that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(h) Pursuant to 40 CFR 63.7296, the Permittee shall meet each emission limitation for No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(i) Pursuant to 40 CFR 63.7300, the Permittee shall meet each operation and maintenance requirement that applies to No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment.~~

~~(j) Pursuant to 40 CFR 63.7310(c), the Permittee shall develop and implement a written~~

~~start-up, shutdown and malfunction plan. During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7336(b).~~

~~(k) Pursuant to 40 CFR 63.7330, the Permittee shall meet each monitoring requirement that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment.~~

~~(l) Pursuant to 40 CFR 63.7331, the Permittee shall meet each requirement regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR Part 63, Subpart CCCCC that applies to No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment.~~

Comment 51

Section D.2.4
USS requests the following corrections:

D.2.4 Lake County PM_{10} Emission Requirements [326 IAC 6-1-10.1(d)(36)] ~~[326 IAC 6-1-10.2(8)][326 IAC[326 IAC 11-3-2(i)]~~

Pursuant to 326 IAC 6-1-10.1(d)(36), ~~326 IAC 6-1-10.2(8) and 326 IAC 11-3-2(i)~~, the PM_{10} emissions from the Nos. 2, 3, 5 and 7 Coke Battery underfiring stacks and Coke Batteries 5/7 baghouse stack CP6050 shall comply with the following:

Explanation: Clarifying the rule citations. The rules listed did not cite the limitations, they only refer back to 6-1-10.1 which provides the actual limitations.

Response to Comment 51

Condition D.2.4 is renumbered D.2.3.

Even though rule citations 326 IAC 6.8-9-3(a)(8) and 326 IAC 11-3-2(i) only refer to 326 IAC 6.8-2-38, all three rules are applicable to coke batteries in Lake County and coke batteries in general. Therefore these citations are listed in this condition. The permit is not revised as result of this comment. The 326 IAC 6.8-9-3(a)(8) citation is revised to document the correct rule cite as follows:

D.2.~~4~~ **3** Lake County PM_{10} Emission Requirements ~~]326 IAC 6-1-10.1(d)(36)]~~ **[326 IAC 6.8-2-38]** ~~[[326 IAC 6-1-10.2(8)]~~ **[326 IAC 6.8-9-3(a)(8)]** [326 IAC 11-3-2(i)]

Pursuant to ~~326 IAC 6-1-10.1(d)(36~~ **326 IAC 6.8-2-38,** ~~326 IAC 6-1-10.2(8)~~ **326 IAC 6.8-9-3(a)(8)** and 326 IAC 11-3-2(i), the PM_{10} emissions from the Nos. 2, 3, 5 and 7 Coke Battery underfiring stacks and Coke Batteries 5/7 baghouse stack CP6050 shall comply with the following:

Comment 52

Section D.2.5, Item (b)(2)
USS requests the following corrections:

(2) A "charging system" ~~in this subdivision~~, means the equipment required to add coal to a coke battery including a larry car, charge ports, jumper pipe and off take pipe.

Explanation: Language correction.

Response to Comment 52

Condition D.2.5 is renumbered D.2.4.

The language is revised to reflect the rule language. The permit is revised as follows:

D.2.4 (b)(2)

(2) A "charging system" ~~in this subdivision~~, means the equipment required to add coal to a coke battery including a larry car, charge ports, jumper pipe and off take pipe.

Comment 53

Section D.2.5, item (c)(3)
USS requests the following corrections:

(3) The particulate emissions from the pushing control devices: ~~No. 2 and No.3 Batteries Mobile scrubber cars 2-9121 and 3-9122 and No. 5 and No. 7 Coke Batteries Pushing Process Baghouse Stack CP6050~~ Nos. 2 and 3 Battery mobile scrubber car Nos. 9119, 9120, 9121, and 9122 shall not exceed four-hundredths (0.04) pound per ton of coke pushed.

Explanation: All scrubber cars should be listed.

Section D.2.5, item (c)(4)
USS requests the following corrections:

(4) Pursuant to 326 IAC 6-1-10.1(d)(36), which is more stringent than 326 IAC 6-1-10.2(c)(3), the particulate matter emissions from the Coke Battery Nos. 5 and 7 pushing emissions control baghouse shall not exceed 0.017 pounds per ton coke produced and 1.28 pounds per hour.

Explanation: The 5/7 Battery PEC baghouse has a limitation under the new SIP (listed in D.2.4(e))that is more stringent, which contradicts this limitation; therefore, the reference to these more stringent limitations are provided here.

Response to Comment 53

All the scrubber cars are added to Condition D.2.5(c)(3) which is renumbered D.2.4(c)(3).

D.2.4 (c)(3)

(3) The particulate emissions from the pushing control devices: No. 2 and No.3 Batteries Mobile scrubber cars ~~2-9121 and 3-9122~~ **Nos. 9119, 9120, 9121, and 9122** and No. 5 and No. 7 Coke Batteries Pushing Process Baghouse Stack CP6050 shall not exceed four-hundredths (0.04) pound per ton of coke pushed.

Condition D.2.5(c)(4) is renumbered D.2.4(c)(4)

Even though the particulate emissions limit in 326 IAC 6.8-2-38 Lake County Particulate Emissions Limitations is more stringent than the particulate limit in 326 IAC 6.8-9-3(a)(3) for Coke Oven Batteries Particulate Emissions Limitations, both particulate emission limits apply. When the more stringent

particulate limit is met, compliance with the less stringent limit is assured. Therefore the permit is not revised as a result of this comment.

Comment 54

Section D.2.5, Item (h)
USS requests the following corrections:

> *(h) Pursuant to 326 IAC 6-1-10.2(c)(7)(B), the Permittee shall submit the following information regarding its quenching operation in a CCP required to be submitted by 326 IAC 6-1-10.1(l):*

Explanation: Correcting rule citation

Response to Comment 54

See IDEM review Change 15 for 326 IAC 6 Particulate Limitation Rule citation revisions. The rule cite in Condition D.2.5(h) is renumbered D.2.4(h).

> (h) Pursuant to 326 IAC 6.8-9-3(a)(7)(B), the Permittee shall submit the following information regarding its quenching operation in a CCP required to be submitted by 326 IAC 6.8-8-1.

Comment 55

Section D.2.8
USS requests the following corrections:

D.2.8 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-~~4-1.1(c)(22)(E)~~ 1-20] [326 IAC 11-3-2(i)]

Pursuant to 326 IAC 7-~~4-1.1(c)(22) and 326 IAC 11-3-2(i)~~ 1-20, the SO_2 emissions from the Coke Battery underfiring stacks CP6040, CP6045, CP6049 and CP6043 for Nos. 2, 3, 5 and 7 coke batteries shall not exceed ~~1.3 pounds of SO_2 per MMBtu of heat input each.~~ the following:

During periods when the coke oven gas desulfurization unit is not operating:

Nos. 2 and 3 Batteries	*1.270 lbs/mmbtu each*	*251.5 lbs/hr each*
Nos. 5 and 7 Batteries	*1.270 lbs/mmbtu each*	*158.75 lbs/hr each*

During periods when the coke oven gas desulfurization unit is operating:

Nos. 2 and 3 Batteries	*0.260 lbs/mmbtu each*
No. 5 Battery	*0.270 lbs/mmbtu*
No. 7 Battery	*0.260 lbs/mmbtu*

Explanation: Final SIP revisions as of March 2005. Rule 11-3-2 does not state the SO_2 limitations, it only refers to other rules.

Response to Comment 55

Condition D.2.8 is renumbered D.2.7.

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1.

The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.2.~~8~~ **7** Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(E)]~~ **[326 IAC 7-4.1-20]** [326 IAC 11-3-2(i)]

~~Pursuant to 326 IAC 7-4-1.1(c)(22) and 326 IAC 11-3-2(i) the SO_2 emissions from the Coke Battery underfiring stacks CP6040, CP6045, CP6049 and CP6043 for Nos. 2, 3, 5 and 7 coke batteries shall not exceed 1.3 pounds of SO_2 per MMBtu of heat input each.~~

Pursuant to 326 IAC 7-4.1-20(a)(1)(D), the SO_2 emissions from the Coke Battery underfiring stacks CP6040, CP6045, CP6049 and CP6043 for Nos. 2, 3, 5 and 7 coke batteries shall not exceed the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(D), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit	Emission Limit lb/MMBtu	Emission Limit Lb/hr
No. 2 and 3 Coke Oven Battery Underfiring stacks	1.270 lbs/MMBtu each	251.5 lbs/hr each
No. 5 and 7 Coke Oven Battery Underfiring stacks	1.270 lbs/MMBtu each	158.75 lbs/hr each

(b) Pursuant to 326 IAC 7-4.1-20(b)(4), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit	Emission Limit lb/MMBtu	Emission Limit Lb/hr
No. 2 and 3 Coke Oven Battery Underfiring stacks	0.260 lbs/MMBtu each	51.5 lbs/hr each
No. 5 Coke Oven Battery Underfiring stack	0.270 lbs/MMBtu each	22.8 lbs/hr each
No. 7 Coke Oven Battery Underfiring stack	0.260 lbs/MMBtu each	32.5 lbs/hr each

Comment 56

Section D.2.10
USS requests the following corrections:

D.2.10 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and any associated control devices.~~ the emission control devices for these facilities.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repairing of emission control devices, not an entire operation or process. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 56

Condition D.2.10 is renumbered D.2.9.

D.2.~~10~~ **9** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section."

Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the Coke Battery facilities themselves because lack of proper maintenance on the Coke Battery units can result in increased emissions. Therefore, the permit is not revised as a result of this comment.

Comment 57

Section D.2.11, Items (1) – (4)
USS requests the following corrections:

(1) Each performance test is to be conducted according to the procedures and requirements 40 CFR 63.309 and in 40 CFR 63, Appendix A Method 303 or 303A ~~in appendix A 40 CFR Part 63 to this part~~ or 40 CFR Part 60, Appendix A, Methods 9 and 22 in ~~appendix A to 40 CFR Part 60~~ (where applicable).

(2) Each performance test is to be conducted by a certified observer.

(3) The certified observer shall complete any reasonable safety training program offered by the Permittee prior to conducting any performance test at a coke oven battery.

(4) ~~*Except as otherwise provided in paragraph (a)(5) of 40 CFR 63.309, the Permittee shall pay an inspection fee to the enforcement agency each calendar quarter to defray the costs of the daily performance tests required under paragraph (a) of 40 CFR 63.309.*~~

~~*(A) The inspection fee shall be determined according to the following formula:*~~

~~*F = H x S where*~~

~~*F = Fees to be paid by owner or operator.*~~

~~*H = Total person hours for inspections: 4 hours for 1 coke oven battery, 6.25 hours for 2 coke oven batteries, 8.25 hours for 3 coke oven batteries. For more than 3 coke oven batteries, use these hours to calculate the appropriate estimate of person hours.*~~

~~*S = Current average hourly rate for private visible emission inspectors in the relevant market.*~~

~~*(B) The Permittee shall not be required to pay an inspection fee (or any part thereof) under paragraph (a)(4) of 40 CFR 63.309, for any monitoring or inspection services required by paragraph (a) of 40 CFR 63.309 that the Permittee can demonstrate are covered by other fees collected by the enforcement agency.*~~

~~*(C) Upon request, the enforcement agency shall provide the Permittee information concerning the inspection services covered by any other fees collected by the enforcement agency, and any information relied upon under paragraph (a)(4)(B) of 40 CFR 63.309.*~~

~~*(5) The EPA shall be the enforcement agency during any period of time that a delegation of enforcement authority is not in effect or a withdrawal of enforcement authority under 40 CFR 63.313 is in effect, and the Administrator is responsible for performing the inspections required by this section, pursuant to 40 CFR 63.313(b).*~~

~~*(6) Within thirty (30) days of receiving notification from the Administrator that the EPA is the enforcement agency for a coke oven battery, the Permittee shall enter into a contract providing for the inspections and performance tests required under this section to be performed by a Method 303 certified observer. The inspections and performance tests will be conducted at the expense of the Permittee, during the period that the EPA is the implementing agency.*~~

~~*(7) The enforcement agency shall commence daily performance tests on the applicable date specified in 40 CFR 63.300 (a) or (c).*~~

~~*(8)*~~ *The certified observer shall conduct each performance test according to the requirements in this paragraph:*

Explanation: USS is under private contract for daily inspections. Items 4-7 are not applicable.

Response to Comment 57

Part 1 Condition D.2.11(a)(1) is renumbered D.2.10(a)(1) and revised to clarify the requirements. Since the method 303A is for non-recovery coke batteries this test method is deleted (See also IDEM Change 12). Therefore the permit is revised as follows:

(1) Each performance test is to be conducted according to the procedures and requirements 40 CFR 63.309 and in **40 CFR 63, Appendix A** Method 303 ~~or 303A in appendix A 40~~

~~CFR Part 63 to this part~~ or **40 CFR Part 60, Appendix A,** Methods 9 and 22 ~~in appendix A to 40 CFR Part 60~~ (where applicable).

Part 2 IDEM has the delegated authority from the EPA to implement the Method 303 inspection program. As of July 1, 2005, IDEM will hire a contractor to perform the Method 303 inspections. IDEM will also collect the fees from USS to have these 303 inspections performed. Items 4 through 7 will be effective upon issuance of this Part 70 Permit. Therefore, the permit is not revised as a result of this comment.

Comment 58

Section D.2.11, Item (5)
USS requests the following corrections:

(5)(~~9~~) Using the observations obtained from each performance test, the enforcement agency shall compute and record, in accordance with the procedures and requirements of Method 303 or 303A in appendix A to 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:

Explanation: Correction to numbering

Response Comment 58

Condition D.2.11(a)(9) is renumbered D.2.10(e).

See Part 1 of Response to Comment 57 and IDEM Change 12. Since the coke batteries are recovery coke batteries the test method 303A for non-recovery batteries is deleted. The permit is revised as follows:

(e)~~(9)~~ Using the observations obtained from each performance test, the enforcement agency shall compute and record, in accordance with the procedures and requirements of Method 303 ~~or 303A~~ in appendix A to 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:

Comment 59

Section D.2.11, Item (5)(D)
USS requests the following corrections:

(D) For a by-product coke oven battery subject to the small battery emission limitation for coke oven doors pursuant to 40 CFR 63.304(b)(7), the 30-run rolling average of the number of leaking coke oven doors;

~~*(E) For an approved alternative emission limitation for coke oven doors according to 40 CFR 63.305, the weekly or monthly observation of the percent leaking coke oven doors using Method 303 in appendix A to 40 CFR Part 63, the percent opacity of visible emissions from the control device for the shed using Method 9 in appendix A to 40 CFR Part 60, and visible emissions from the shed using Method 22 in appendix A to 40 CFR Part 60.*~~

Explanation: There is no shed at this facility.

Response to Comment 59

Condition D.2.11(a)(9)(E) was deleted.

Since USS does not have a coke battery shed the condition is revised as follow:

> ~~(E) For an approved alternative emission limitation for coke oven doors according to 40 CFR 63.305, the weekly or monthly observation of the percent leaking coke oven doors using Method 303 in appendix A to 40 CFR Part 63, the percent opacity of visible emissions from the control device for the shed using Method 9 in appendix A to 40 CFR Part 60, and visible emissions from the shed using Method 22 in appendix A to 40 CFR Part 60.~~

Comment 60

Section D.2.11, Item (6)
USS requests the following corrections:

> *(6)(~~10~~) The certified observer shall make available to the implementing agency as well as to the Permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to The Permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying an owner or operator of the results obtained by a certified observer, the person does not have to be certified.*

Explanation: Correction to numbering

Response to Comment 60

> IDEM has the delegated authority from the EPA to implement the Method 303 inspection program. As of July 1, 2005, IDEM will hire a contractor to perform the Method 303 inspections. IDEM will also collect the fees from USS to have these 303 inspections performed. Items 4 through 7 will be effective upon issuance of this Part 70 Permit. Therefore, the permit is not revised as a result of this comment.

Comment 61

Section D.2.11, Item (7)
USS requests the following corrections:

> *(7)(~~11~~) Compliance shall not be determined more often than the schedule provided for performance tests under this section. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall be used in any computations performed to determine compliance under 40 CFR 63.309(d) or determinations under 40 CFR 63.306.*

Explanation: Correction to numbering

Response to Comment 61

IDEM has the delegated authority from the EPA to implement the Method 303 inspection program. As of July 1, 2005, IDEM will hire a contractor to perform the Method 303 inspections. IDEM will also collect the fees from USS to have these 303 inspections performed. Items 4 through 7 will be effective upon issuance of this Part 70 Permit. Therefore, the permit is not revised as a result of this comment.

Comment 62

Section D.2.11, Item (8)
USS requests the following corrections:

(8)(~~12)~~ For a flare constructed to meet the requirements of 40 CFR 63.307(b):

Explanation: Correction to numbering

Response to Comment 62

IDEM has the delegated authority from the EPA to implement the Method 303 inspection program. As of July 1, 2005, IDEM will hire a contractor to perform the Method 303 inspections. IDEM will also collect the fees from USS to have these 303 inspections performed.

Comment 63

Section D.2.11, Item (9)
USS requests the following corrections:

(9)~~(13~~) No observations obtained during any program for training or for certifying observers under this subpart shall be used to determine compliance with the requirements of this subpart or any other federally enforceable standard.

~~*(b) The certified observer shall conduct each performance test according to 40 CFR 63.309(c).*~~

Explanation: This is a redundant statement. It is already outlined in item 4 above.

Response to Comment 63

The redundant statement is deleted. The condition is renumbered as stated under IDEM review Change No. 12:

~~*(b) The certified observer shall conduct each performance test according to 40 CFR 63.309(c).*~~

Comment 64

Section D.2.12
USS requests the following corrections:

The Permittee must comply with the following standards no later than April 14, 2006.

Explanation: The language in the permit must clarify when these standards apply.

Response to Comment 64

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

~~D.2.12 National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching and Battery Stacks - Compliance Requirements for Coke Batteries [40 CFR 63.7310(a)][40 CFR 63.7324] [40 CFR 63.7326][40 CFR 63.7328][40 CFR 63.7332] [40 CFR Part 63.7333][40CFR 63.7334] [40CFR 63.7335]~~

~~(a) Pursuant to 40 CFR 63.7310(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.2.3 after a specified period of time, except during periods of start-up, shutdown and malfunction as defined in 40 CFR 63.2, which is incorporated by reference in 326 IAC 20-1-3.~~

~~(b) Pursuant to 40 CFR 63.7326, the Permittee shall demonstrate initial compliance with the emission limitations that apply to the by-product coke batteries: No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery, for the following:~~

~~(1) Particulate matter emission limit from a control device applied to pushing emissions; and~~

~~(2) Opacity limit for stacks.~~

~~(3) Total Dissolved Solids (TDS) limit or constituent limits for quench water.~~

~~(c) Pursuant to 40 CFR 63.7327and 63.7320(c), the Permittee shall demonstrate initial compliance with the work practice standards for by-product coke oven batteries with vertical flues that apply to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery, for the following:~~

~~(1) Work practice standards for fugitive pushing emissions and~~

~~(2) Work practice standards for soaking.~~

~~(3) Work practice standards for quenching.~~

~~(d) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery, in accordance with 40 CFR 63.7328 and 63.7320(c).~~

~~(e) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR Part 63, Subpart CCCCC, in accordance with 40 CFR 63.7332.~~

~~(f) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR Part 63, Subpart CCCCC, that apply to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment in accordance with 40 CFR 63.7333.~~

~~(g) Pursuant to 40 CFR 63.7334, the Permittee shall demonstrate continuous compliance with work practice standards for by-product coke oven batteries with vertical flues, that apply to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke~~

~~Battery, for the following:~~

~~(1) Work practice standards for fugitive pushing emissions, in accordance with 40 CFR 63.7334(a) and~~
~~(2) Work practice standards for soaking, in accordance with 40 CFR 63.7334(d).~~

~~(3) Work practice standards for quenching, in accordance with 40 CFR 63.7334(e).~~

~~(h) Pursuant to 40 CFR 63.7335, the Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC that apply to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment.~~

Comment 65

Section D.2.13
USS requests the following corrections:

The Permittee must comply with the following standards no later than April 14, 2006.

Response to Comment 65

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

~~D.2.13 National Emissions Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching and Battery Stacks -Testing Requirements [40 CFR 63.7320 through 63.7324]~~

~~(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery, in accordance with 40 CFR 63.7320 for the following:~~

~~(1) Each emission limit in 40 CFR 63.7290(a) for particulate matter from a control device applied to pushing emissions within 180 days of April 14, 2006.~~

~~(2) The TDS limit or constituent for quench water in 40 CFR 63.7295(a)(1) by April 14, 2006.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to each control device subject to an emission limit for particulate matter in 40 CFR 63.7290(a) that is used at the No. 2 Coke Battery, No. 3 Coke Battery , No. 5 Coke Battery and No. 7 Coke Battery, in accordance with 40 CFR 63.7321.~~

~~(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7322 , when demonstrating compliance with the emission limits for particulate matter from the pushing control device for the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7323 to establish and demonstrate initial compliance with operating limits for the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and required capture and control equipment.~~

~~(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7324 when demonstrating compliance with the opacity limits for the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

~~(f) The Permittee shall use the test methods and other procedures in 40 CFR 63.7325 to demonstrate initial compliance with the TDS or constituent limits for quench water for the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery.~~

Comment 66

Section D.2.14, Item (a)
USS requests the following corrections:

(5) Pursuant to 326 IAC 11-3-4(a) and in order to demonstrate compliance with Condition D.2.6~~(c) and (d)~~ (a) and D.2.5(b), the observations shall be made and the identity recorded from any point or points on the topside of a coke oven battery such that the observer can obtain an unobstructed view of the charging operation. The observer shall keep cumulative time of the total number of seconds charging emissions are visible. Time is started when a visible emission appears and is stopped when the visible emission expires. This procedure shall continue throughout the entire charging period. Visible emissions occurring simultaneously from two (2) or more separate points shall be timed as one (1).

Explanation: Correction of reference

Response to Comment 66

Condition D.2.14 is renumbered D.2.11.

See IDEM review Change 19 for 326 IAC 6 Particulate Limitation Rule citation revisions.

D.2.6 is renumbered D.2.5 and condition D.2.5(b) (renumbered D.2.4(b)) is added, since compliance with the visible emissions from charging in 326 IAC 6.8-9-3(a)(2) is also determined by 326 IAC 11-3-4(a). The particulate rule cites references are addressed in IDEM review Change 3. Therefore, the permit is revised as follows:

D.2.~~14~~ **11**Visible Emission Inspections for Charging [326 IAC 11-3-4(a)]

(a) Pursuant to 326 IAC 11-3-4(a) and in order to demonstrate compliance with Condition**s** D.2.~~6~~**5**(a) **and D.2.4(b),** the observations shall be made and the identity recorded from any point or points on the topside of a coke oven battery such that the observer can obtain an unobstructed view of the charging operation. The observer shall keep cumulative time of the total number of seconds charging emissions are visible. Time is started when a visible emission appears and is stopped when the visible emission expires. This procedure shall continue throughout the entire charging period. Visible emissions occurring simultaneously from two (2) or more separate points shall be timed as one (1).

Comment 67

Section D.2.15
USS requests the following corrections:

Pursuant to 326 IAC 11-3-4(b) and in order to determine compliance with condition D.2.6 ~~(f), (g) and (h)~~ (b) and (c) and D.2.5 (d) and (e), the observer shall walk the length of the topside of a coke oven battery, on a line down the middle of the battery, or as close as safety permits, to record the identity of standpipes in a single traverse and charge port lids in a single traverse that have any visible emissions.

Explanation: Correction of reference.

Response to Comment 67

Condition D.2.15 is renumbered D.2.12.

Condition D.2.6 is renumbered D.2.5 and conditions D.2.5(d) and (e) (renumbered D.2.4(d) and (e)) have been added, since compliance for the visible emissions from charge port lids and Off take piping in 326 IAC 6-1-10.2(c)(4) and (5) is also determined by 326 IAC 11-3-4(b). The particulate rule cites references are addressed in IDEM review Change 3. Therefore, the permit is revised as follows:

D.2.~~15~~**12** Charge Port Lids and Off take Piping - Emissions Testing [326 IAC 11-3-4(b)]

Pursuant to 326 IAC 11-3-4(b) and in order to determine compliance with condition**s** D.2.~~6~~**5**(b) and (c) **and D.2.4(d) and (e)**, the observer shall walk the length of the topside of a coke oven battery, on a line down the middle of the battery, or as close as safety permits, to record the identity of standpipes in a single traverse and charge port lids in a single traverse that have any visible emissions.

Comment 68

Section D.2.16, Item (a)
USS requests the following corrections:

D.2.16 Visible Emissions for Oven Doors [326 IAC 11-3-4(c)]

(a) Pursuant to 326 IAC 11-3-4(c) and in order to demonstrate compliance with Condition D.2.6 ~~(a) and (b)~~, (e) and D.2.5(a), an observer shall record the starting time of the inspection, then shall move steadily along the push-side or coke-side of a coke oven battery, stopping only to record the identity of any doors of ovens not temporarily or permanently taken out of service that have visible emissions, but not including visible emissions due to steam from uncombined water. The inspector shall have any of the following options:

Explanation: Correction of reference.

Response to Comment 68

D.2.16 is renumbered D.2.13.

Condition D.2.6 is renumbered D.2.5 and condition D.2.5(a) (renumbered D.2.4(a)) is added, since compliance for the visible emissions from oven doors in 326 IAC 6-1-10.2(c)(1) is also determined by 326 IAC 11-3-4(c). The particulate rule cites references are addressed in IDEM review Change 3. Therefore, the permit is revised as follows:

D.2.~~16~~ **13** Visible Emissions for Oven Doors [326 IAC 11-3-4(c)]

(a) Pursuant to 326 IAC 11-3-4(c) and in order to demonstrate compliance with Condition**s**

D.2.~~6~~**5**(e) **and D.2.4(a)**, an observer shall record the starting time of the inspection, then shall move steadily along the push-side or coke-side of a coke oven battery, stopping only to record the identity of any doors of ovens not temporarily or permanently taken out of service that have visible emissions, but not including visible emissions due to steam from uncombined water. The inspector shall have any of the following options:

Comment 69

Section D.2.17
USS requests the following corrections:

D.2.17 Visible Emissions Inspections for Gas Collector Main [326 IAC 11-3-4(e)]

Pursuant to 326 IAC 11-3-4(e) and in order to determine compliance with condition D.2.6 ~~(i) and (j)~~ (d) and D.2.5(f), the observer shall walk the length of the topside of the gas collector main, to record the number of points in a single traverse from which emissions are visible.

Explanation: Correction of reference.

Response to Comment 69

Condition D.2.17 is renumbered D.2.14.

The condition reference D.2.6 is renumbered D.2.5 and condition D.2.5(f) (renumbered D.2.4(f)) is added, since compliance for the visible emissions from gas collector mains in 326 IAC 6-1-10.2(c)(6) is also determined by 326 IAC 11-3-4(e). Therefore, the permit is revised as follows:

D.2.~~17~~**14**Visible Emissions Inspections for Gas Collector Main [326 IAC 11-3-4(e)]

Pursuant to 326 IAC 11-3-4(e) and in order to determine compliance with condition**s** D.2.~~6~~**5**(d) **and D.2.4(f)**, the observer shall walk the length of the topside of the gas collector main, to record the number of points in a single traverse from which emissions are visible.

Comment 70

Section D.2.18, Item (a)-(b)
USS requests the following corrections:

(a) Pursuant to 326 IAC 6-1-10.2 (c)(3) and in order to determine compliance with Condition D.2.5 ~~(c)(1)~~ (c)(1)), the opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins shall be determined on an instantaneous basis at the top of the battery. The observer shall be positioned outside of the quench car rails.

(b) Pursuant to 326 IAC 6-1-10.2 (c)(3) and in order to determine compliance with Condition D.2.5 ~~(c)(2)~~ (c)(2), the opacity of emissions from the pushing operations (begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower), shall be determined using 40 CFR 60, Appendix A, Method 9, except the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

Explanation: Correction of reference.

Response to Comment 70

Condition D.2.18 is renumbered D.2.15.

Condition D.2.5 is renumbered D.2.4. The particulate matter rule cite references are addressed in IDEM review Change 3.

D.2.~~18~~ **15** Visible Emissions Inspections Pushing [326 IAC 6.8-9-3(a)(3)]

(a) Pursuant to 326 IAC 6.8-9-3(a)(3)(A) and in order to determine compliance with Condition D.2.~~5~~ **4**(c)(1), the opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins shall be determined on an instantaneous basis at the top of the battery. The observer shall be positioned outside of the quench car rails.

(b) Pursuant to 326 IAC 6.8-9-3(a)(3)(B) and in order to determine compliance with Condition D.2.~~5~~ **4**(c)(2), the opacity of emissions from the pushing operations (begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower), shall be determined using 40 CFR 60, Appendix A, Method 9, except the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

Comment 71

Section D.2.19, Item (a)-(b)
USS requests the following corrections:

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.2.4, the Permittee shall perform PM_{10} testing <u>for noncondensibles (front half)</u> on the No. 5 and 7 Coke Batteries Pushing Baghouse Stack CP6050, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.2.4, the Permittee shall perform PM_{10} testing <u>for noncondensibles (front half)</u> on the No. 2, No. 3, No.5 and No. 7 coke batteries underfire Stacks CP6040, CP6045, CP6049 and CP6053, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Explanation: Condensable PM at this location is believed to be negligible and it has been modeled as such for the latest revision of the Lake County PM_{10} rule.

Response to Comment 71

Condition D.2.19 is renumbered D.2.16.

The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4. Also, the condition has been clarified to indicate that the testing schedule is based on the latest valid compliance demonstration. In addition, the Article 6 rule cites have been revised to reflect the 326 IAC 6 Particulate Rule update. Condition reference D.2.4 is renumbered D.2.3. Therefore the permit is revised as follows:

D.2.~~19~~ **16** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the ~~last~~ **latest valid** compliance ~~test~~ **demonstration** which ever is earlier, in order to demonstrate compliance with Condition D.2.~~4~~**3**, the Permittee shall perform PM_{10} testing on the No. 5 and 7 Coke Batteries Pushing Baghouse Stack CP6050, using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)(1)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or five (5) years from the date of the ~~last~~ **latest valid** compliance ~~test~~ **demonstration,** which ever is earlier, in order to demonstrate compliance with Condition D.2.~~4~~**3**, the Permittee shall perform PM_{10} testing on the No. 2, No. 3, No.5 and No. 7 coke batteries underfire Stacks CP6040, CP6045, CP6049 and CP6053, using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)(1)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 72

Section D.2.20
USS requests the following corrections:

D.2.20 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis [326 IAC ~~7-4-1.1(d)~~ 7-4.1-2]

Response to Comment 72

Condition D.2.20 is renumbered D.2.17.

See IDEM's response to EPA Comment 12 for deletion of dioxide (SO_2)

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit.

Therefore the permit is revised as follows:

D.2.~~20~~**17**Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis ~~[326 IAC 7-4-1.1(d)]~~ **[326 IAC 7-4.1-2]**

Comment 73

Section D.2.21, Item (a)
USS requests the following corrections:

(a) ~~*To control particulate matter the mobile scrubber cars 2-9121 and 3-9122, and baghouse CP3041 shall be in operation at all times the coke batteries are in operation*~~. *To control particulate matter from pushing operations, the respective pushing emissions control equipment shall be in operation during each pushing operation.*

~~*(b) To control particulate matter and in order to comply with D.2.5, the baffles and treatment of process water in the Coke Plant Process Water Treatment Plant used in Nos. 1, 2, 3, 5 and 6 Coke Battery Quench Systems CP1Q0080, CP2Q0081, CP3Q0087, CP5Q0091 and CP6Q0095 shall be used at all times the Nos. 1, 2, 3, 5 and 6 Quench Systems are in operation.*~~

Explanation: The batteries operate continuously however, pushing operations do not. The four scrubber cars for 2/3 Batteries do not all operate at one time and are only used during pushing. The baghouse for 5/7 Batteries is only used during pushing. Item b was not technically accurate. The baffles are a structural part of the quench towers. Baffle structure is part of the tower itself and structural design requirements are already discussed in D.2.5(j). The wastewater treatment plant has no relation to the quench system.

Response to Comment 73

Condition D.2.21 is renumbered D.2.18.

This condition has been revised to clarify that the particulate control devices are operated at the coke batteries during the pushing process and what control devices control particulate matter from which coke batteries. The addition of a new Item (b) is addressed in IDEM's Response to Comment 78 below. Therefore, the permit is revised as follows:

D.2.~~21~~ **18**Particulate Matter Control

(a) ~~To control particulate matter the mobile scrubber cars 2-9121 and 3-9122, and baghouse CP3041 shall be in operation at all times the coke batteries are in operation.~~ **Except as otherwise provided by statute, rule, or this permit, PM control shall be as follows:**

(1) The mobile scrubber cars 9119, 9120, 9121 and/or 9122 shall be in operation at all times, when the No. 2 and/or 3 Coke Batteries pushing processes are in operation to control particulate matter.

(2) The baghouse CP3041 shall be in operation at all times, when the No. 5 and/or 7 Coke Batteries pushing processes are in operation, to control particulate matter.

~~(b) To control particulate matter and in order to comply with D.2.5, the baffles and treatment of process water in the Coke Plant Process Water Treatment Plant used in Nos. 1, 2, 3, 5~~

~~and 6 Coke Battery Quench Systems CP1Q0080, CP2Q0081, CP3Q0087, CP5Q0091 and CP6Q0095 shall be used at all times the Nos. 1, 2, 3, 5 and 6 Quench Systems are in operation.~~

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Comment 74

Section D.2.22
USS requests the following corrections:

~~*D.2.22 Visible Emissions Notations*~~

~~*(a) Visible emission notations of the No. 2 and No.3 Coke Oven Battery: mobile scrubber cars 2-9121 and 3-9122 and the No. 5 and No. 7 Coke Oven Battery: pushing bag house stack CP6050 shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.*~~

~~*(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.*~~

~~*(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.*~~

~~*(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.*~~

~~*(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*~~

Explanation: USS believes the requirement to conduct VE notations for pollution control equipment is overly burdensome considering the large amount of visible emission observation that the facility already is required to do. The CCP already requires daily parametric monitoring and inspection for these units. The Coke MACT will require additional compliance testing and parametric monitoring.

Response to Comment 74

Condition D.2.22 is renumbered D.2.19.

326 IAC 6.8-8-7(A) requires a Continuous Compliance Plans (CCP) for baghouses and scrubbers to include a description of any visible emissions evaluation program.

The mobile scrubber cars identification numbers are revised as requested.

Upon further review, IDEM has determined that once per day visible emission notations is generally sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the permit is revised as follows:

D.2.~~22~~ **19**Visible Emissions Notations

(a) Visible emission notations of the No. 2 and No.3 Coke Oven Battery: mobile scrubber cars ~~2-9121 and 3-9122~~ **9119, 9120, 9121 and 9122** and the No. 5 and No. 7 Coke Oven Battery: pushing bag house stack CP6050 shall be performed once per ~~shift~~ **day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed**, the Permittee shall take reasonable response steps in accordance with** Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

Comment 75

Section D.2.23, Item (a)
USS requests the following corrections:

(a) Pursuant to 40 CFR 63.7330(a)(1), beginning April 14, 2006 t~~T~~he Permittee shall record the total static pressure drop across the baghouse CP3041 used in conjunction with No. 5 and No. 7 coke oven batteries pushing operations at least once per ~~shift~~ day when pushing is occurring. When for any one reading, the pressure drop across each baghouse is outside the normal range of 3.0 to ~~8.0~~ 15 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan Implementation, Records, and Reports, shall be considered a deviation of this permit.

Explanation: Pressure drop range was established in the Continuous Compliance Plan. Item (b) provides coverage for monitoring under CCP and CMP.

Response to Comment 75

Condition D.2.23 is renumbered D.2.20. IDEM has determined that the frequency of pressure drop readings can be changed from once per shift to once per day. In addition it has been determined that the pressure drop range across the baghouse can be changed as requested. Therefore the permit is revised as follows:

D.2.~~23~~ **20**Parametric Monitoring

(a) The Permittee shall record the ~~total static~~ pressure drop across the baghouse CP3041 used in conjunction with No. 5 and No. 7 coke oven batteries pushing operations at least once per ~~shift~~ **day** when pushing is occurring. When for any one reading, the pressure drop across each baghouse is outside the normal range of 3.0 to ~~8.0~~ **15** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

Comment 76

Section D.2.23, Item (b)
USS requests the following corrections:

(b) The Permittee shall monitor and record all parametric data as required in accordance with current Continuous Compliance Plan pursuant to 326 IAC 6-1-10.1(l) and with the Compliance Monitoring Plan pursuant to the COMS Waiver. When any parametric data is outside the normal range in accordance with the ranges specified in the plan, the Permittee shall take reasonable response steps in accordance with Section D – Compliance Response Plan – Preparation, Implementation, Records and Reports or in accordance to the corrective action outline in the Compliance Monitoring Plan. An out of range condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan – Preparation, Implementation, Records and Reports or in accordance with the Compliance Monitoring Plan, shall be considered a deviation of this permit.

Explanation: Addition of language to include the COMS Waiver and any corrective actions.

Response to Comment 76

Condition D.2.23 is renumbered D.2.20.

The COMs Waiver specifically applies to the Coal Precarbonization Systems. The requirements for the Coal Precarbonization Systems are listed in Section D.1 of this permit.

The requirement for Continuous Compliance Plan (CCP) is listed in Section C - Entire Source. A

reference to this Section C condition is added to the permit to clarify a CCP is required for the particulate control device in this D Section. Therefore, the permit is revised as follows:

(b) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C-Continuous Compliance Plan.

Comment 77

Section D.2.23, Item (c)
USS requests the following corrections:

(c) ~~(b)~~ *The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.*

Explanation: Correction of numbering

Response to Comment 77

Condition D.2.23 is renumbered D.2.20. Section C - Pressure Gauge and Other Instruments language has been revised. See IDEM's Change 27.

~~(b)~~ **(c)** The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ Instrument Specifications of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

Comment 78

Section D.2.25, Item (a)
USS requests the following corrections:

(a) For multi-compartment units, the affected compartments will be shut down ~~immediately~~ as soon as practical until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Explanation: Safety should be considered for shutdowns of any equipment or processes.

Response to Comment 78

Paragraph (a) of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.2.18 requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

Paragraph (b) of this condition has been removed. IDEM received an email October 17, 2005 from US Steel-Gary Works stating there are not any single compartment baghouses are in service at the source. Therefore, the permit is revised as follows:

~~D.2.24 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

D.2.18 Particulate Matter Control **[326 IAC 2-7-6(6)]**

(a) **Except as otherwise provided by statute, rule, or this permit, PM control shall be as follows:**

(1) The mobile scrubber cars 9119, 9120, 9121 and/or 9122 shall be in operation at all times, when the No. 2 and/or 3 Coke Batteries pushing processes are in operation to control particulate matter.

(2) The baghouse CP3041 shall be in operation at all times, when the No. 5 and/or 7 Coke Batteries pushing processes are in operation, to control particulate matter.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Comment 79

Section D.2.27. Item (d)
USS requests the following corrections:

~~*(d)*~~ *Whenever a continuous opacity monitor (COM) is malfunctioning or will be down for calibration, maintenance, or repairs for a period of one (1) hour or more, compliance with the applicable opacity limits shall be demonstrated by the following:*

~~*(1) Visible emission (VE) notations shall be performed once per hour during daylight operations following the shutdown or malfunction of the primary COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.*~~

~~*(A) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.*~~

~~*(B) If abnormal emissions are noted during two consecutive emission notations, the Permittee shall begin Method 9 opacity observations within four hours of the second abnormal notation.*~~

~~*(C) VE notations may be discontinued once a COM is online or formal Method 9 readings have been implemented.*~~

~~*(2)*~~ *<u>four hours or more or</u> ~~I~~ <u>if</u> a COM is not online within twenty-four (24) hours of shutdown or malfunction ~~of the primary COM~~, the Permittee shall provide certified opacity reader(s), who may be employees of the Permittee or independent contractors, to self-monitor the emissions from the emission unit stack.*

(A) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.

(B) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least once every four (4) hours during daylight operations, until such time that a COM is in operation.

(C) Method 9 readings may be discontinued once a COM is online.

(D) Any opacity exceedances determined by Method 9 readings shall be

reported with the Quarterly Opacity Exceedances Reports.

~~*(3) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.*~~

Explanation: VE notations is addition to Method 9 readings are not necessary. When malfunctions are discovered , Method 9 readings are taken. USS requests this alternative and more reasonable approach. There is only one COMs per stack. Item 3 is a response and additional VE notation and should be deleted.

Response to Comment 79

Condition D.2.27 is renumbered D.2.22.

Upon further review, IDEM has determined that no additional monitoring will be required during COM downtime, until the COM has been down for twenty-four (24) hours. This allows the Permittee to focus on the task of repairing the COM during the first twenty-four (24) hour period. After twenty-four (24) hours of COM downtime, the Permittee will be required to conduct Method 9 readings for thirty (30) minutes. Once Method 9 readings are required to be performed, the readings should be performed twice per day, rather than once every four (4) hours, until a COMS is back in service. Therefore, the permit is revised as follows:

D.2.~~27~~**22** Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.

(b) All ~~continuous opacity monitoring systems~~ **COMS** shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.

(c) In the event that a breakdown of a ~~continuous opacity monitoring systems~~ **COMS** occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(d) Whenever a ~~continuous opacity monitoring systems~~ **COMS** is malfunctioning or ~~will be~~ **is** down for ~~calibration,~~ maintenance, or repairs for a period of ~~one (1) hour~~ **twenty four (24) hours** or more, **and a backup COMS is not on line within twenty-four (24) hours of shutdown or malfunction of the primary COMS,** ~~compliance with the applicable opacity limits shall be demonstrated by the following:~~

~~(1) Visible emission (VE) notations shall be performed once per hour during daylight operations following the shutdown or malfunction of the primary COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.~~

~~(A) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and~~

~~characteristics of normal visible emissions for that specific process.~~

~~(B) If abnormal emissions are noted during two consecutive emission notations, the Permittee shall begin Method 9 opacity observations within four hours of the second abnormal notation.~~

~~(C) VE notations may be discontinued once a COM is online or formal Method 9 readings have been implemented.~~

~~(2) If a COM is not online within twenty-four (24) hours of shutdown or malfunction of the primary COM~~, the Permittee shall provide **a** certified opacity reader~~(s~~), who may be **an** employee of the Permittee or **an** independent contractor~~s~~, to self-monitor the emissions from the emission unit stack.

~~(A)~~ **(1)** Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.

~~(B)~~ **(2)** Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least ~~once every four (4) hours~~ **twice per day** during daylight operations, **with at least four (4) hours between each set of readings** until ~~such time that~~ a COM**S** is ~~in operation~~ **on line**~~-~~.

~~(C)~~ **(3)** Method 9 readings may be discontinued once a COM is online.

~~(D)~~ **(4)** Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

~~(3)~~ **(5)** If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions and Exceedances.** Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions and Exceedances**, shall be considered a deviation from this permit.

(e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 63).

Comment 80

Section D.2.28
USS requests the following corrections:

D.2.28 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries -Record Keeping and Reporting Requirements [40~~2~~ CFR 63.311][326 IAC 20]

Explanation: Correction of rule cite

Response to Comment 80

Condition D.2.28 is renumbered D.2.23, the rule cite is revised as follows:

D.2.~~28~~ **23**National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries -Record Keeping and Reporting Requirements [40~~2~~ CFR 63.311][326 IAC 20]

Comment 81
USS requests the following corrections:

Section D.2.28, Item (a)(6)

(6) Records specified in 40 CFR Part 63.~~311~~ 310(f) regarding the basis of each malfunction.

Explanation: Correction of citation reference.

Response to Comment 81

Condition D.2.28 is renumbered D.2.23 and D.2.23(a)(6) has been revised to correct the cite reference. The permit is revised as follows:

(6) Records specified in 40 CFR Part 63.~~311~~ **310**(f) regarding the basis of each malfunction.

Comment 82

Section D.2.28, Item (b)
USS requests the following corrections:

~~(b) A semiannual compliance certification to document compliance with Condition D.2.2 shall include the following:~~

~~(1) No coke oven gas was vented except through the bypass/bleeder stack flare system of the by-product coke battery during the reporting period, or~~

~~(2) A venting of coke oven gas that was not through the bypass/bleeder stack flare system was reported within 24 hours, and a written report was submitted within thirty (30) days.~~

~~(3) A startup, shutdown or malfunction did not occur during the reporting period, or~~

~~(4) A startup, shutdown or malfunction did occur and date report was reported and submitted within fourteen (14) days.~~

The Permittee shall include the following information in the semi-annual compliance certification:

(1) Certification, signed by the responsible official, that no coke oven gas was vented, except through the bypass/bleeder stack flare system of a by-product coke oven battery during the reporting period or that venting report has been submitted in accordance with 40 CFR 63.311(e).

(2) Certification, signed by the responsible official, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, or malfunction event did occur and a report was submitted in accordance with 40 CFR 63.310(e).

(3) Certification, signed by the responsible official, that work practices were implemented if applicable under 40 CFR 63.306.

Explanation: The wording in this section was confusing. It is replaced with the regulation verbatim to avoid translation errors.

Response to Comment 82

Condition D.2.28(b) renumbered D.2.23(b), the wording has been changed to the exact language from the rule. Therefore, the permit is revised as follows:

(b) ~~A semiannual compliance certification to document compliance with Condition D.2.2 shall include the following:~~

~~(1) No coke oven gas was vented except through the bypass/bleeder stack flare system of the by-product coke battery during the reporting period, or~~

~~(2) A venting of coke oven gas that was not through the bypass/bleeder stack flare system was reported within 24 hours, and a written report was submitted within thirty (30) days.~~

~~(3) A startup, shutdown or malfunction did not occur during the reporting period, or~~

~~(4) A startup, shutdown or malfunction did occur and date report was reported and submitted within fourteen (14) days.~~

(b) The Permittee shall include the following information in the semi-annual compliance certification:

(1) Certification, signed by the responsible official, that no coke oven gas was vented, except through the bypass/bleeder stack flare system of a by-product coke oven battery during the reporting period or that venting report has been submitted in accordance with 40 CFR 63.311(e).

(2) Certification, signed by the responsible official, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, or malfunction event did occur and a report was submitted in accordance with 40 CFR 63.310(e).

(3) Certification, signed by the responsible official, that work practices were implemented if applicable under 40 CFR 63.306.

Comment 83

Section D.2.29
USS requests the following corrections:

The Permittee must comply with the following standards on or after April 14, 2006 or the applicable compliance date pursuant to 40 CFR 63, Subpart CCCCC.

Explanation: As stated, this entire condition implies immediate applicability. The applicable compliance dates must be clarified here.

Response to Comment 83

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

~~D.2.27 National Emissions Standards for Hazardous Air Pollutants from Coke Ovens: Pushing, Quenching and Battery Stacks- Record Keeping Requirements [40 CFR 63.7310(b)][40 CFR 63.7][326 IAC 20]~~

~~(a) The Permittee shall maintain a log detailing the operation and maintenance of the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and control equipment, in accordance with 40 CFR 63.7310(b).~~

~~(b) The Permittee shall keep the records required by 40 CFR 63.7342(a).~~

~~(c) If a Continuous Opacity Monitoring System (COMS) is used to comply with an opacity standard, the Permittee shall keep the records specified in 40 CFR 63.7342(b).~~

~~(d) The Permittee shall keep the records required in 40 CFR 63.6(h)(6) for visible observations in accordance with 40 CFR 63.7342(c).~~

~~(e) Pursuant to 40 CFR 63.7333 and 63.7342 (d), the Permittee shall keep the records required to demonstrate continuous compliance with each emission limitation requirement for each by-product coke battery that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery, for the following:~~

~~(1) Each control device and capture system applied to pushing emissions; and~~

~~(2) Opacity limits for stacks.~~

~~(3) TDS limit for quenching; and~~

~~(4) Constituent limit for quenching.~~

~~(f) Pursuant to 40 CFR 63.7334 and 63.7342(d), the Permittee shall keep the records to demonstrate continuous compliance with the work practice standards for each by-product Coke Battery with vertical flues that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery, as follows:~~

~~(1) Work practice standards for fugitive pushing emissions, in accordance with 40 CFR 63.7334(a) and~~

~~(2) Work practice standards for soaking, in accordance with 40 CFR 63.7334(d).~~

~~(3) Work practice standards for quenching in accordance with 40 CFR 63.7334(e).~~

~~(g) Pursuant to 40 CFR 63.7335 and 63.7342 (d), the Permittee shall keep the records required to show continuous compliance with each operation and maintenance requirement that applies to the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery, for the following:~~

~~(1) The operation and maintenance plan requirements;~~

~~(2) Capture systems or control devices applied to pushing emissions;~~

~~(3) Baghouses applied to pushing emissions; and~~

~~(4) The requirements to maintain a current copy of the operation and maintenance plan.~~

~~(h) The Permittee shall keep the records required by 40 CFR Part 63, Subpart CCCCC in accordance with 40 CFR 63.7343 and the General Record Keeping Requirements in Section C of this permit.~~

Comment 84

Section D.2.29
USS requests the following corrections:

(a) *The Permittee shall maintain a log detailing the operation and maintenance of the No. 2 Coke Battery, No. 3 Coke Battery, No. 5 Coke Battery and No. 7 Coke Battery and control equipment, in accordance with 40 CFR 63.7310(b), during the period between the compliance date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set.*

Explanation: This requirement needed to be qualified as temporary requirement per the regulation.

Response to Comment 84

Condition D.2.29 has been deleted, since the deadline to comply with the rule of April 14, 2006 has passed. After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26.

Comment 85

Section D.2.30, Item (d)
USS requests the following corrections:

(d) ~~*To document compliance with Condition D.2.22, the Permittee shall maintain records of the once per shift visible emissions notations of the stack exhausts.*~~

~~*(e)*~~ *To document compliance with Condition D.2.23(a), beginning April 16, 2006, the records of the total static pressure drop during normal operation.*

(e) To document compliance with Condition D.2.23(b), the Permittee shall maintain records of the parametric monitoring during normal operation in accordance with the Continuous Compliance Plan and the Compliance Monitoring Plan.

Explanation: See comments to remove VE notations.

Response to Comment 85

The frequency of VE readings in Condition D.2.22 renumbered D.2.19 and the parametric monitoring language in Condition D.2.23 renumbered D.2.20 were changed to once per day, because after further review IDEM has determined that once per day monitoring of control device and visible emission notations is generally sufficient to ensure proper operation of the control device. IDEM has also determined that monitoring these parameters once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. No reference needs to be added for 40 CFR 63, Subpart CCCCC in item (c), because the baghouse monitoring is required under existing rules for the baghouse Continuous Compliance Plan requirements in 326 IAC 6.8-8-6 and 326 IAC 6.8-8-7(1) and the Compliance Monitoring Plan. Therefore, the permit is revised as follows:

D.2.24 Record Keeping Requirements

(d) To document compliance with Condition D.2.~~22~~ **20**, the Permittee shall maintain records of the once per ~~shift~~ **day** visible emissions notations of the stack exhausts.

(e) To document compliance with Condition D.2.~~23~~ **21**, the Permittee shall maintain ~~the~~ records of the **once per day** ~~total static~~ pressure drop during normal operation.

Comment 86

Section D.2.30, Item (f)
USS requests the following corrections:

(f) To document compliance with Conditions D.2.24 and D.2.10 and with the inspection requirements of the Continuous Compliance Plan., the Permittee shall maintain records of the results of the inspections.

Response to Comment 86

Since the baghouse inspection condition D.2.24 has been removed from the permit, the requirement to keep records of the inspections is also deleted. See IDEM's review Change 26. The record keeping requirement for baghouse inspections is deleted. Therefore, the permit is revised as follows:

~~(f) To document compliance with Conditions D.2.24, the Permittee shall maintain records of the results of the inspections.~~

Comment 87

Section D.2.30, Item (g)
USS requests the following corrections:

~~*(g) To document compliance with Condition D.2.5(h), the Permittee shall maintain the following:*~~

~~*(1) Maintain records of the source and proportions of clean (Lake Michigan, process and miscellaneous sources of non-process) water used in the Nos. 1, 2, 3, 5 and 6 Coke Battery Quench Systems.*~~

~~*(2) Maintain records of the Coke Plant Water Treatment Plant downtime.*~~

(g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Explanation The requirement was to include specific information in the originally submitted CCP. The operation of the wastewater treatment plant has no relation to quench water or air emissions.

Response to Comment 87

The quench water source and air emissions are not affected by the wastewater treatment plant operations. Therefore the requirement to keep records of sources of quench water and the waste water treatment plant operations are deleted. Condition D.2.24(f) is revised as follows:

~~(g) To document compliance with Condition D.2.5(h), the Permittee shall maintain the following:~~

~~(1) Maintain records of the source and proportions of clean (Lake Michigan, process and miscellaneous sources of non-process) water used in the Nos. 1, 2, 3, 5 and 6 Coke Battery Quench Systems.~~

~~(2) Maintain records of the Coke Plant Water Treatment Plant downtime.~~

~~(g)~~ **(f)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 88

Section D.2.31 Item (a)
USS requests the following corrections:

(a) On or after April 14, 2006, t~~T~~he Permittee shall report each deviation in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit in accordance with 40 CFR 63.7336(a) and 40 CFR 63.7341(e), ~~326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).~~

Explanation: These rule citations are not applicable here.

Response to Comment 88

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

~~D.2.26 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries -Record Keeping and Reporting Requirements [40 CFR 63.311][326 IAC 20]~~

~~(a) To document compliance with Condition D.2.2, the Permittee shall maintain the following records:~~

~~(1) A copy of the work practice plan for each emission point, any revisions and the following:~~

~~(A) All audiovisual and written training materials,~~

~~(B) Dates of each training class,.~~

~~(C) Names of participants in each class; and~~

~~(D) Documentation that all appropriate personnel have successfully completed the training required in condition D.2.2(b)(4)(A).~~

~~(2) Records required to be maintained by the work practice plan provisions implemented under 40 CFR 63.306 (b)(7);~~

~~(3) Records resulting from audits of the effectiveness of the work practice plan for the particular emission point;~~

~~(4) Records of the inventory of coke oven doors and jambs;~~

~~(5) The design drawings and engineering specifications for the bypass/bleeder stack flare system; and~~

~~(6) Records specified in 40 CFR Part 63.310(f) regarding the basis of each malfunction.~~

~~(b) A semiannual compliance certification to document compliance with Condition D.2.2 shall include the following:~~

~~(1) No coke oven gas was vented except through the bypass/bleeder stack flare system of the by-product coke battery during the reporting period, or~~

~~(2) A venting of coke oven gas that was not through the bypass/bleeder stack flare system was reported within 24 hours, and a written report was submitted within thirty (30) days.~~

~~(3) A startup, shutdown or malfunction did not occur during the reporting period, or~~

~~(4) A startup, shutdown or malfunction did occur and date report was reported and submitted within fourteen (14) days.~~

Comment 89

Section D.2.31 Item (c)
USS requests the following corrections:

(c) The Permittee shall submit a notification of compliance status in accordance ~~with~~ to dates specified in 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7340(e).

Explanation: Language change.

Response to Comment 89

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

Comment 90

Section D.2.31 Item (e)
USS requests the following corrections:

> *(e) On or after April 14, 2006, t ~~T~~he Permittee shall submit quarterly compliance reports and semiannual compliance reports in accordance with 40 CFR Part 63.7341(a) through (c).*

Explanation: Clarification of effective date of the MACT standards.

Response to Comment 90

After further review, IDEM has replaced the abbreviated permit conditions for 40 CFR 63 Subpart CCCCC with the full 40 CFR 63 Subpart CCCCC NESHAP language, since the compliance date for this NESHAP has passed. The full NESHAP language is included in the renumbered Condition D.2.26. Therefore the permit is revised as follows:

Comment 91

Section D.2.32 Item (c)
USS requests the following corrections:

> *(c) A quarterly summary of the ~~information~~ natural gas usage to document compliance with Condition D.2.9, shall be submitted in accordance with Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, within thirty (30) days after the end of the quarter being reported.*

Explanation: Only NG usage is relevant to compliance with this condition.

Response to Comment 91

Condition D.2.32 is renumbered D.2.25.

D.2.25 Reporting Requirements

> (c) A quarterly summary of the ~~information~~ **natural gas usage** to document compliance with Condition D.2.9, renumbered D.2.8 shall be submitted in accordance with Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, within thirty (30) days after the end of the quarter being reported.

Comment 92

Section D.2.33
USS requests the following corrections:

> *The Permittee shall submit an application for a significant permit modification to IDEM, OAQ ~~to include information from the notification of compliance status in the Part 70 permit.~~*

Explanation: The reason for this statement is unknown and therefore deleted. Notification of compliance status is already outlined under NESHAP.

Response to Comment 92

After further review IDEM has removed the requirement to submit a significant permit modification to include the specific 40 CFR 63 Subpart CCCCC NESHAP requirements from this condition and added the specific requirements associated with the with the coke batteries in the renumbered Condition D.2.26, because the Permittee must comply with these requirements no later than April 14, 2006. Therefore the permit is revised as follows:

~~D.2.31Requirements to Submit a Significant Permit Modification Application [326 IAC 2-7-12] [326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information from the notification of compliance status in the Part 70 permit.~~

~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR Part 63, Subpart CCCCC, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.~~

~~(b) The significant permit modification application shall be submitted no later than July 14, 2005.~~

~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

D.2.26 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching and Battery Stacks 40 CFR 63, Subpart CCCCC]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart CCCCC—National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks

Source: 68 FR 18025, Apr. 14, 2003, unless otherwise noted.

What This Subpart Covers

§63.7280 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for pushing, soaking, quenching, and battery stacks at coke oven batteries. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations, work practice standards, and operation and maintenance requirements in

this subpart.

§63.7281 Am I subject to this subpart?

You are subject to this subpart if you own or operate a coke oven battery at a coke plant that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7282 What parts of my plant does this subpart cover?

(a) This subpart applies to each new or existing affected source at your coke plant. The affected source is each coke oven battery.

(b) This subpart covers emissions from pushing, soaking, quenching, and battery stacks from each affected source.

(c) An affected source at your coke plant is existing if you commenced construction or reconstruction of the affected source before July 3, 2001.

(d) An affected source at your coke plant is new if you commenced construction or reconstruction of the affected source on or after July 3, 2001. An affected source is reconstructed if it meets the definition of "reconstruction" in §63.2.

§63.7283 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you no later than April 14, 2006.

(d) You must meet the notification and schedule requirements in §63.7340. Several of these notifications must be submitted before the compliance date for your affected source.

[68 FR 18025, Apr. 14, 2003; 68 FR 19885, Apr. 22, 2003]

Emission Limitations and Work Practice Standards

§63.7290 What emission limitations must I meet for capture systems and control devices applied to pushing emissions?

(a) You must not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from a new or existing coke oven battery that exceed the applicable limit in paragraphs (a)(2) through (3) of this section:

(2) 0.02 pound per ton (lb/ton) of coke if a moveable hood vented to a stationary control device is used to capture emissions;

(3) If a mobile scrubber car that does not capture emissions during travel is used:

0.01 lb/ton of coke for a control device applied to pushing emissions from a tall battery.

(b) You must meet each operating limit in paragraphs (b)(1) through (4) of this section that applies to you for a new or existing coke oven battery.

(1) For each venturi scrubber applied to pushing emissions, you must maintain the daily average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) (i) For each capture system that uses an electric motor to drive the fan, you must maintain the daily average fan motor amperes at or above the minimum level established during the initial performance test; and

(ii) For each capture system that does not use a fan driven by an electric motor, you must maintain the daily average static pressure at the inlet to the control device at an equal or greater vacuum than the level established during the initial performance test or maintain the daily average fan revolutions per minute (RPM) at or above the minimum level established during the initial performance test.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60818, Oct. 13, 2004]

§63.7291 What work practice standards must I meet for fugitive pushing emissions if I have a by-product coke oven battery with vertical flues?

(a) You must meet each requirement in paragraphs (a)(1) through (7) of this section for each new or existing by-product coke oven battery with vertical flues.

(1) Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).

(2) If two or more batteries are served by the same pushing equipment and total no more than 90 ovens, the batteries as a unit can be considered a single battery.

(3) Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day.

(4) Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day. Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day.

(5) If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater:

X = 0.55 * Y(Eq. 1)

Where:

X = Number of calendar days allowed to complete corrective action or increase coking time; and

Y = Current coking time for the oven, hours.

For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.

(6)(i) You must demonstrate that the corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph (a)(5) of this section, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in paragraph (a)(5) of this section.

(ii) After implementing any additional corrective action and/or increased coking time required under paragraph (a)(6)(i) or (a)(7)(ii) of this section, you must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph (a)(5) of this section, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must follow the

procedures in paragraph (a)(6)(iii) of this section.

(iii) If the corrective action and/or increased coking time was unsuccessful as described in paragraph (a)(6)(ii) of this section, you must repeat the procedures in paragraph (a)(6)(ii) of this section until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under paragraph (a)(6)(ii) of this section.

(7)(i) If at any time you place an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using the procedures in paragraph (a)(7)(ii) or (a)(7)(iii) of this section.

(ii) To qualify for a decreased coking time for an oven placed on increased coking time in accordance with paragraph (a)(5) or (6) of this section, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph (a)(6)(ii) of this section to confirm that the corrective action(s) and/or increased coking time was successful.

(iii) If the attempt to qualify for decreased coking time was unsuccessful as described in paragraph (a)(7)(ii) of this section, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in paragraph (a)(1) of this section. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph (a)(6)(ii) of this section to confirm that the corrective action(s) and/or increased coking time was successful.

(iv) You must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in paragraph (a)(7)(iii) of this section.

(b) As provided in §63.6(g), you may request to use an alternative to the work practice standards

in paragraph (a) of this section.

§63.7294 What work practice standard must I meet for soaking?

(a) For each new and existing by-product coke oven battery, you must prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:

(1) Train topside workers to identify soaking emissions that require corrective actions.

(2) Damper the oven off the collecting main prior to opening the standpipe cap.

(3) Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.

(4) If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.

(5) If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.

(b) As provided in §63.6(g), you may request to use an alternative to the work practice standard in paragraph (a) of this section.

§63.7295 What requirements must I meet for quenching?

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section for each quench tower and backup quench station at a new or existing coke oven battery.

(1) For the quenching of hot coke, you must meet the requirements in paragraph (a)(1)(i) or (ii) of this section.

(i) The concentration of total dissolved solids (TDS) in the water used for quenching must not exceed 1,100 milligrams per liter (mg/L); or

(ii) The sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used for quenching must not exceed the applicable site-specific limit approved by the permitting authority.

(2) You must use acceptable makeup water, as defined in §63.7352, as makeup water for quenching.

(b) For each quench tower at a new or existing coke oven battery and each backup quench station at a new coke oven battery, you must meet each of the requirements in paragraphs (b)(1) through (4) of this section.

(1) You must equip each quench tower with baffles such that no more than 5 percent of the cross sectional area of the tower may be uncovered or open to the sky.

(2) You must wash the baffles in each quench tower once each day that the tower is used to quench coke, except as specified in paragraphs (b)(2)(i) and (ii) of this section.

(i) You are not required to wash the baffles in a quench tower if the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the day, you must resume daily washing according to the schedule in your operation and maintenance plan.

(ii) You must continuously record the ambient temperature on days that the baffles were not washed.

(3) You must inspect each quench tower monthly for damaged or missing baffles and blockage.

(4) You must initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

(c) As provided in §63.6(g), you may request to use an alternative to the work practice standards in paragraph (b) of this section.

§63.7296 What emission limitations must I meet for battery stacks?

You must not discharge to the atmosphere any emissions from any battery stack at a new or existing by-product coke oven battery that exhibit an opacity greater than the applicable limit in paragraphs (a) and (b) of this section.

(a) Daily average of 15 percent opacity for a battery on a normal coking cycle.

(b) Daily average of 20 percent opacity for a battery on batterywide extended coking.

Operation and Maintenance Requirements

§63.7300 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of new or existing by-product coke oven batteries. Each plan must address, at a minimum, the elements listed in paragraphs (b)(1)

through (6) of this section.

(1) Frequency and method of recording underfiring gas parameters.

(2) Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.

(3) Procedures to prevent pushing an oven before it is fully coked.

(4) Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.

(5) Frequency and procedures for inspecting flues, burners, and nozzles.

(6) Schedule and procedures for the daily washing of baffles.

(c) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from a new or existing coke oven battery. Each plan must address at a minimum the elements in paragraphs (c)(1) through (3) of this section.

(1) Monthly inspections of the equipment that are important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered. The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the approval process.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions

may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions.

[68 FR 18025, Apr. 14, 2003, as amended at 70 FR 44289, Aug. 2, 2005]

General Compliance Requirements

§63.7310 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7283 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 18025, Apr. 14, 2003, as amended at 71 FR 20467, Apr. 20, 2006]

Initial Compliance Requirements

§63.7320 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) As required in §63.7(a)(2), you must conduct a performance test to demonstrate compliance with each limit in §63.7290(a) for emissions of particulate matter from a control device applied to pushing emissions that applies to you within 180 calendar days after the compliance date that is specified in §63.7283.

(b) You must conduct performance tests to demonstrate compliance with the TDS limit or constituent limit for quench water in §63.7295(a)(1) and each opacity limit in §63.7297(a) for a by-

product coke oven battery stack by the compliance date that is specified in §63.7283.

(c) For each work practice standard and operation and maintenance requirement that applies to you, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified in §63.7283.

§63.7321 When must I conduct subsequent performance tests?

For each control device subject to an emission limit for particulate matter in §63.7290(a), you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

§63.7322 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in paragraph (b) of this section.

(b) To determine compliance with a process-weighted mass rate of particulate matter (lb/ton of coke) from a control device applied to pushing emissions where a cokeside shed is not used, follow the test methods and procedures in paragraphs (b)(1) through (4) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to 40 CFR part 60.

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.

(2) During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 30 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (*i.e.*, sample for an integral number of pushes).

(3) Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.

(4) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of

this section as follows:

$$E_p = \frac{C \times Q \times T}{P \times K} \qquad \text{(Eq. 1)}$$

Where:

E_p = Process weighted mass emissions of particulate matter, lb/ton;

C = Concentration of particulate matter, gr/dscf;

Q = Volumetric flow rate of stack gas, dscf/hr;

T = Total time during a run that a sample is withdrawn from the stack during pushing, hr;

P = Total amount of coke pushed during the test run, tons; and

K = Conversion factor, 7,000 gr/lb.

[68 FR 18025, Apr. 14, 2003, as amended at 70 FR 44289, Aug. 2, 2005]

§63.7323 What procedures must I use to establish operating limits?

(a) For a venturi scrubber applied to pushing emissions from a coke oven battery, you must establish site-specific operating limits for pressure drop and scrubber water flow rate according to the procedures in paragraphs (a)(1) and (2) of this section.

(1) Using the continuous parameter monitoring systems (CPMS) required in §63.7330(b), measure and record the pressure drop and scrubber water flow rate for each particulate matter test run during periods of pushing. A minimum of one pressure drop measurement and one scrubber water flow rate measurement must be obtained for each push.

(2) Compute and record the average pressure drop and scrubber water flow rate for each test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate values recorded during any of the three runs that meet the applicable emission limit.

(c) For a capture system applied to pushing emissions from a coke oven battery, you must establish a site-specific operating limit according to the procedures in paragraphs (c)(1), (2), or (3) of this section.

(2) If you elect the operating limit in §63.7290(b)(3)(i) for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.

(3) If you elect the operating limit in §63.7290(b)(3)(ii) for static pressure or fan RPM, measure and record the static pressure at the inlet of the control device or fan RPM during each push sampled for each particulate matter test run. Your operating limit for static pressure is the

minimum vacuum recorded during any of the three runs that meets the emission limit. Your operating limit for fan RPM is the lowest fan RPM recorded during any of the three runs that meets the emission limit.

(e) You may change the operating limit for a venturi scrubber, capture system, or mobile control device that captures emissions during pushing if you meet the requirements in paragraphs (e)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (d) of this section.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60818, Oct. 13, 2004]

§63.7324 What procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in paragraph (b) of this section.

(b) To determine compliance with the daily average opacity limit for stacks of 15 percent for a by-product coke oven battery on a normal coking cycle or 20 percent for a by-product coke oven battery on batterywide extended coking, follow the test methods and procedures in paragraphs (b)(1) through (3) of this section.

(1) Using the continuous opacity monitoring system (COMS) required in §63.7330(e), measure and record the opacity of emissions from each battery stack for a 24-hour period.

(2) Reduce the monitoring data to hourly averages as specified in §63.8(g)(2).

(3) Compute and record the 24-hour (daily) average of the COMS data.

§63.7325 What test methods and other procedures must I use to demonstrate initial compliance with the TDS or constituent limits for quench water?

Need to know which option USS has elected to do (a), (b) or (c)?

(a) If you elect the TDS limit for quench water in §63.7295(a)(1)(i), you must conduct each performance test that applies to your affected source according to the conditions in paragraphs (a)(1) and (2) of this section.

(1) Take the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (*e.g.,* from the header that feeds water to the quench tower

reservoirs). Conduct sampling under normal and representative operating conditions.

(2) Determine the TDS concentration of the sample using Method 160.1 in 40 CFR part 136.3 (see "residue—filterable"), except that you must dry the total filterable residue at 103 to 105 °C (degrees Centigrade) instead of 180 °C.

(b) If at any time you elect to meet the alternative requirements for quench water in §63.7295(a)(1)(ii), you must establish a site-specific constituent limit according to the procedures in paragraphs (b)(1) through (4) of this section.

(1) Take a minimum of nine quench water samples from a location that provides a representative sample of the quench water as applied to the coke (*e.g.,* from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.

(2) For each sample, determine the TDS concentration according to the requirements in paragraph (a)(2) of this section and the concentration of benzene, benzo(a)pyrene, and naphthalene using the applicable methods in 40 CFR part 136 or an approved alternative method.

(3) Determine and record the highest sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in any sample that has a TDS concentration less than or equal to the TDS limit of 1,100 mg/L. This concentration is the site-specific constituent limit.

(4) Submit the site-specific limit, sampling results, and all supporting data and calculations to your permitting authority for review and approval.

§63.7326 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each coke oven battery subject to the emission limit for particulate matter from a control device applied to pushing emissions, you have demonstrated initial compliance if you meet the requirements in paragraphs (a)(1) through (4) of this section that apply to you.

(1) The process-weighted mass rate of particulate matter (lb/ton of coke), measured in accordance with the performance test procedures in §63.7322(b)(1) through (4), did not exceed:

(i) 0.02 lb/ton of coke if a moveable hood vented to a stationary control device is used to capture emissions;

(ii) If a mobile scrubber car that does not capture emissions during travel is used, 0.01 lb/ton of coke from a control device applied to pushing emissions from a tall coke oven battery;

(2) For each venturi scrubber applied to pushing emissions, you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7323(a).

(4) For each capture system applied to pushing emissions, you have established an appropriate

site-specific operating limit, and:

(ii) If you elect the operating limit in §63.7290(b)(3)(i) for fan motor amperes, you have a record of the fan motor amperes during the performance test in accordance with §63.7323(c)(2); or

(iii) If you elect the operating limit in §63.7290(b)(3)(ii) for static pressure or fan RPM, you have a record of the static pressure at the inlet of the control device or fan RPM measured during the performance test in accordance with §63.7323(c)(3).

(b) For each new or existing by-product coke oven battery subject to the opacity limit for stacks in §63.7296(a), you have demonstrated initial compliance if the daily average opacity, as measured according to the performance test procedures in §63.7324(b), is no more than 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking.

(c) For each new or existing by-product coke oven battery subject to the TDS limit or constituent limits for quench water in §63.7295(a)(1),

(1) You have demonstrated initial compliance with the TDS limit in §63.7295(a)(1)(i) if the TDS concentration, as measured according to the performance test procedures in §63.7325(a), does not exceed 1,100 mg/L.

(2) You have demonstrated initial compliance with the constituent limit in §63.7295(a)(1)(ii) if:

(i) You have established a site-specific constituent limit according to the procedures in §63.7325(b); and

(ii) The sum of the constituent concentrations, as measured according to the performance test procedures in §63.7325(c), is less than or equal to the site-specific limit.

(d) For each by-product coke oven battery stack subject to an opacity limit in §63.7296(a) and each by-product coke oven battery subject to the requirements for quench water in §63.7295(a)(1), you must submit a notification of compliance status containing the results of the COMS performance test for battery stacks and the quench water performance test (TDS or constituent limit) according to §63.7340(e)(1). For each particulate matter emission limitation that applies to you, you must submit a notification of compliance status containing the results of the performance test according to §63.7340(e)(2).

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7327 How do I demonstrate initial compliance with the work practice standards that apply to me?

(a) For each by-product coke oven battery with vertical flues subject to the work practice standards for fugitive pushing emissions in §63.7291(a), you have demonstrated initial compliance if you certify in your notification of compliance status that you will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(d) For each by-product coke oven battery subject to the work practice standards for soaking in §63.7294, you have demonstrated initial compliance if you have met the requirements of paragraphs (d)(1) and (2) of this section:

(1) You have prepared and submitted a written work practice plan in accordance with §63.7294(a); and

(2) You certify in your notification of compliance status that you will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(e) For each coke oven battery, you have demonstrated initial compliance with the work practice standards for quenching in §63.7295(b) if you certify in your notification of compliance status that you have met the requirements of paragraphs (e)(1) and (2) of this section:

(1) You have installed the required equipment in each quench tower; and

(2) You will meet each of the work practice requirements beginning no later than the compliance date that is specified in §63.7283.

(f) For each work practice standard that applies to you, you must submit a notification of compliance status according to the requirements in §63.7340(e)(1).

§63.7328 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

You have demonstrated initial compliance if you certify in your notification of compliance status that you have met the requirements of paragraphs (a) through (d) of this section:

(a) You have prepared the operation and maintenance plans according to the requirements in §63.7300(b) and (c);

(b) You will operate each by-product coke oven battery and each capture system and control device applied to pushing emissions from a coke oven battery according to the procedures in the plans beginning no later than the compliance date that is specified in §63.7283;

(c) You have prepared a site-specific monitoring plan according to the requirements in §63.7331(b); and

(d) You submit a notification of compliance status according to the requirements in §63.7340(e).

Continuous Compliance Requirements

§63.7330 What are my monitoring requirements?

(a) For each baghouse applied to pushing emissions from a coke oven battery, you must at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in §63.7331(a) and conduct inspections at their specified

frequency according to the requirements in paragraphs (a)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;

(3) Check the compressed air supply for pulse-jet baghouses each day;

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology;

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(b) For each venturi scrubber applied to pushing emissions, you must at all times monitor the pressure drop and water flow rate using a CPMS according to the requirements in §63.7331(e).

(d) For each capture system applied to pushing emissions, you must at all times monitor the volumetric flow rate according to the requirements in §63.7331(g), the fan motor amperes according to the requirements in §63.7331(h), or the static pressure or the fan RPM according to the requirements in §63.7331(i).

(e) For each by-product coke oven battery, you must monitor at all times the opacity of emissions exiting each stack using a COMS according to the requirements in §63.7331(j).

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7331 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each baghouse applied to pushing emissions, you must install, operate, and maintain each bag leak detection system according to the requirements in paragraphs (a)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;

(2) The system must provide output of relative changes in particulate matter loadings;

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance" (EPA–454/R–98–015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(e) For each venturi scrubber applied to pushing emissions, you must install, operate, and maintain CPMS to measure and record the pressure drop across the scrubber and scrubber water flow rate during each push according to the requirements in paragraphs (b) through (d) of this section except as specified in paragraphs (e)(1) through (3) of this section.

(1) Each CPMS must complete a measurement at least once per push;

(2) Each CPMS must produce valid data for all pushes; and

(3) Each CPMS must determine and record the daily (24-hour) average of all recorded readings.

(h) If you elect the operating limit in §63.7290(b)(3)(i) for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.

(i) If you elect the operating limit in §63.7290(b)(3)(ii) for a capture system applied to pushing emissions, you must install, operate and maintain a device to measure static pressure at the inlet of the control device or the fan RPM.

(j) For each by-product coke oven battery, you must install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in paragraphs (j)(1) through (5) of this section.

(1) You must install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR part 60, appendix B. Identify periods the COMS is

out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.

(2) You must conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in appendix B to 40 CFR part 60;

(3) You must develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS;

(4) Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).

(5) You must determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7332 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times the affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7333 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) For each control device applied to pushing emissions and subject to the emission limit in §63.7290(a), you must demonstrate continuous compliance by meeting the requirements in paragraphs (a)(1) and (2) of this section:

(1) Maintaining emissions of particulate matter at or below the applicable limits in paragraphs §63.7290(a)(1) through (4); and

(2) Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than twice during each term of your title V operating permit (at mid-term and renewal).

(b) For each venturi scrubber applied to pushing emissions and subject to the operating limits in §63.7290(b)(1), you must demonstrate continuous compliance by meeting the requirements in paragraphs (b)(1) through (3) of this section.

(1) Maintaining the daily average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test.

(2) Operating and maintaining each CPMS according to §63.7331(b) and recording all information needed to document conformance with these requirements.

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7331(e)(1) through (3).

(d) For each capture system applied to pushing emissions and subject to the operating limit in §63.7290(b)(3), you must demonstrate continuous compliance by meeting the requirements in paragraph (d)(1), (2), or (3) of this section:

(2) If you elect the operating limit for fan motor amperes in §63.7290(b)(3)(i):

(i) Maintaining the daily average fan motor amperages at or above the minimum level established during the initial or subsequent performance test; and

(ii) Checking the fan motor amperage at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.

(3) If you elect the operating limit for static pressure or fan RPM in §63.7290(b)(3)(ii):

(i) Maintaining the daily average static pressure at the inlet to the control device at an equal or greater vacuum than established during the initial or subsequent performance test or the daily average fan RPM at or above the minimum level established during the initial or subsequent performance test; and

(ii) Checking the static pressure or fan RPM at least every 8 hours to verify the daily average static pressure at the inlet to the control device is at an equal or greater vacuum than established during the initial or subsequent performance test or the daily average fan RPM is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.

(e) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in §63.7296(a) by meeting the requirements in paragraphs (e)(1) and (2) of this section:

(1) Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and

(2) Operating and maintaining a COMS and collecting and reducing the COMS data according to §63.7331(j).

(f) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance with the TDS limit for quenching in §63.7295(a)(1)(i) by meeting the requirements in paragraphs (f)(1) and (2) of this section:

(1) Maintaining the TDS content of the water used to quench hot coke at 1,100 mg/L or less; and

(2) Determining the TDS content of the quench water at least weekly according to the requirements in §63.7325(a) and recording the sample results.

(g) Beginning on the first day compliance is required under §63.7283, you must demonstrate continuous compliance with the constituent limit for quenching in §63.7295(a)(1)(ii) by meeting the requirements in paragraphs (g)(1) and (2) of this section:

(1) Maintaining the sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used to quench hot coke at levels less than or equal to the site-specific limit approved by the permitting authority; and

(2) Determining the sum of the constituent concentrations at least monthly according to the requirements in §63.7325(c) and recording the sample results.

[68 FR 18025, Apr. 14, 2003, as amended at 69 FR 60819, Oct. 13, 2004]

§63.7334 How do I demonstrate continuous compliance with the work practice standards that apply to me?

(a) For each by-product coke oven battery with vertical flues subject to the work practice standards for fugitive pushing emissions in §63.7291(a), you must demonstrate continuous compliance according to the requirements of paragraphs (a)(1) through (8) of this section:

(1) Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by §63.7291(a)(3). Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to §63.7291(a)(4).

(2) Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in paragraphs (a)(1) through (8) of this section.

(3) Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in appendix A to 40 CFR part 60 using a Method 9 certified observer unless you have an approved alternative procedure under paragraph (a)(7) of this section.

(4) Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (appendix A to 40 CFR part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii)(B) for obtaining at least 3 hours of

observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.

(5) If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (*e.g.,* as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.

(6) Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.

(i) For a battery without a cokeside shed, observe fugitive pushing emissions from a position at least 10 meters from the quench car that provides an unobstructed view and avoids interferences from the topside of the battery. This may require the observer to be positioned at an angle to the quench car rather than perpendicular to it. Typical interferences to avoid include emissions from open standpipes and charging. Observe the opacity of emissions above the battery top with the sky as the background where possible. Record the oven number of any push not observed because of obstructions or interferences.

(iii) You may reposition after the push to observe emissions during travel if necessary.

(7) If it is infeasible to implement the procedures in paragraphs (a)(1) through (6) of this section for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to your permitting authority for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in paragraphs (a)(1) through (6) of this section, identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.

(8) For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with §63.7291(a). Maintain records documenting conformance with the requirements in §63.7291(a).

(d) For each by-product coke oven battery subject to the work practice standard for soaking in §63.7294(a), you must demonstrate continuous compliance by maintaining records that document conformance with requirements in §63.7294(a)(1) through (5).

(e) For each coke oven battery subject to the work practice standard for quenching in §63.7295(b), you must demonstrate continuous compliance according to the requirements of paragraphs (e)(1) through (3) of this section:

(1) Maintaining baffles in each quench tower such that no more than 5 percent of the cross-sectional area of the tower is uncovered or open to the sky as required in §63.7295(b)(1);

(2) Maintaining records that document conformance with the washing, inspection, and repair requirements in §63.7295(b)(2), including records of the ambient temperature on any day that the baffles were not washed; and

(3) Maintaining records of the source of makeup water to document conformance with the requirement for acceptable makeup water in §63.7295(a)(2).

§63.7335 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each by-product coke oven battery, you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7300(b) by adhering at all times to the plan requirements and recording all information needed to document conformance.

(b) For each coke oven battery with a capture system or control device applied to pushing emissions, you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7300(c) by meeting the requirements of paragraphs (b)(1) through (3) of this section:

(1) Making monthly inspections of capture systems according to §63.7300(c)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance for each control device according to §63.7300(c)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7300(c)(3) and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.

(c) To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in §63.7331(a), you must inspect and maintain each baghouse according to the requirements in §63.7331(a)(1) through (8) and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7331(a)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(d) You must maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7336 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in this subpart that applies to you. This includes periods of startup, shutdown, and malfunction. You must also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in this subpart that applies to you. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this subpart. These deviations must

be reported according to the requirements in §63.7341.

(b) *Startup, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 18025, Apr. 14, 2003, as amended at 71 FR 20467, Apr. 20, 2006]

Notification, Reports, and Records

§63.7340 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before April 14, 2003, you must submit your initial notification no later than August 12, 2003.

(c) As specified in §63.9(b)(3), if you startup your new affected source on or after April 14, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following completion of the performance test according to §63.10(d)(2).

§63.7341 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources to your permitting authority according to the requirements

in paragraphs (a)(1) through (4) of this section.

(1) The first quarterly compliance report for battery stacks must cover the period beginning on the compliance date that is specified for your affected source in §63.7283 and ending on the last date of the third calendar month. Each subsequent compliance report must cover the next calendar quarter.

(2) The first semiannual compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7283 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your affected source. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(3) All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(4) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (3) of this section.

(b) *Quarterly compliance report contents.* Each quarterly report must provide information on compliance with the emission limitations for battery stacks in §63.7296. The reports must include the information in paragraphs (c)(1) through (3), and as applicable, paragraphs (c)(4) through (8) of this section.

(c) *Semiannual compliance report contents.* Each compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in paragraphs (c)(1) through (3) of this section, and as applicable, paragraphs (c)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §63.7333(e) for battery stacks, a statement that there were no deviations from the emission limitations during

the reporting period. If there were no deviations from the continuous compliance requirements in §§63.7333 through 63.7335 that apply to you (for all affected sources other than battery stacks), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in this subpart (including quench water limits) and for each deviation from the requirements for work practice standards in this subpart that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in paragraphs (c)(4) and (7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (c)(4) and (8)(i) through (xii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) An identification of each HAP that was monitored at the affected source.

(ix) A brief description of the process units.

(x) A brief description of the continuous monitoring system.

(xi) The date of the latest continuous monitoring system certification or audit.

(xii) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(d) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(e) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 40 CFR part 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to your permitting authority.

§63.7342 What records must I keep?

(a) You must keep the records specified in paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS or CEMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and

(ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7333 through 63.7335 to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.

§63.7343 In what form and how long must I keep my records?

(a) You must keep your records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§63.7350 What parts of the General Provisions apply to me?

Table 1 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7351 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities in paragraphs (c)(1) through (6) of this section will not be delegated to State, local, or tribal agencies.

(1) Approval of alternatives to work practice standards for fugitive pushing emissions in §63.7291(a) for a by-product coke oven battery with vertical flues, soaking for a by-product coke oven battery in §63.7294(a), and quenching for a coke oven battery in §63.7295(b) under §63.6(g).

(2) Approval of alternative opacity emission limitations for a by-product coke oven battery under §63.6(h)(9).

(3) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90, except for alternative procedures in §63.7334(a)(7).

(4) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7352 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA), in §63.2, and in this section as follows:

***Acceptable makeup water* means surface water from a river, lake, or stream; water meeting drinking water standards; storm water runoff and production area clean up water except for water from the by-product recovery plant area; process wastewater treated to meet effluent limitations guidelines in 40 CFR part 420; water from any of these sources that has been used only for non-contact cooling or in water seals; or water from scrubbers used to control pushing emissions.**

***Backup quench station* means a quenching device that is used for less than 5 percent of the quenches from any single coke oven battery in the 12-month period from July 1 to June 30.**

***Baffles* means an apparatus comprised of obstructions for checking or deflecting the flow of gases. Baffles are installed in a quench tower to remove droplets of water and particles from the rising vapors by providing a point of impact. Baffles may be installed either inside or on top of quench towers and are typically constructed of treated wood, steel, or plastic.**

***Battery stack* means the stack that is the point of discharge to the atmosphere of the combustion gases from a battery's underfiring system.**

***Batterywide extended coking* means increasing the average coking time for all ovens in the coke oven battery by 25 percent or more over the manufacturer's specified design rate.**

***By-product coke oven battery* means a group of ovens connected by common walls, where coal undergoes destructive distillation under positive pressure to produce coke and coke oven gas from which by-products are recovered.**

***By-product recovery plant area* means that area of the coke plant where process units subject to**

subpart L in part 61 are located.

Coke oven battery **means a group of ovens connected by common walls, where coal undergoes destructive distillation to produce coke. A coke oven battery includes by-product and non-recovery processes.**

Coke plant **means a facility that produces coke from coal in either a by-product coke oven battery or a non-recovery coke oven battery.**

Cokeside shed **means a structure used to capture pushing emissions that encloses the cokeside of the battery and ventilates the emissions to a control device.**

Coking time **means the time interval that starts when an oven is charged with coal and ends when the oven is pushed.**

Deviation **means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:**

(1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limitation (including operating limits) or work practice standard;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Emission limitation **means any emission limit, opacity limit, or operating limit.**

Four consecutive **pushes means four pushes observed successively.**

Fugitive pushing emissions **means emissions from pushing that are not collected by a capture system.**

Horizontal flue **means a type of coke oven heating system used on Semet-Solvay batteries where the heating flues run horizontally from one end of the oven to the other end, and the flues are not shared with adjacent ovens.**

Hot water scrubber **means a mobile scrubber used to control pushing emissions through the creation of an induced draft formed by the expansion of pressurized hot water through a nozzle.**

Increased coking time **means increasing the charge-to-push time for an individual oven.**

Non-recovery coke oven battery **means a group of ovens connected by common walls and operated as a unit, where coal undergoes destructive distillation under negative pressure to produce coke, and which is designed for the combustion of the coke oven gas from which by-**

products are not recovered.

Oven **means a chamber in the coke oven battery in which coal undergoes destructive distillation to produce coke.**

Pushing **means the process of removing the coke from the oven. Pushing begins with the first detectable movement of the coke mass and ends when the quench car enters the quench tower.**

Quenching **means the wet process of cooling (wet quenching) the hot incandescent coke by direct contact with water that begins when the quench car enters the quench tower and ends when the quench car exits the quench tower.**

Quench tower **means the structure in which hot incandescent coke in the quench car is deluged or quenched with water.**

Remove from service **means that an oven is not charged with coal and is not used for coking. When removed from service, the oven may remain at the operating temperature or it may be cooled down for repairs.**

Responsible official **means responsible official as defined in §63.2.**

Short battery **means a by-product coke oven battery with ovens less than five meters in height.**

Soaking **means that period in the coking cycle that starts when an oven is dampered off the collecting main and vented to the atmosphere through an open standpipe prior to pushing and ends when the coke begins to be pushed from the oven.**

Soaking emissions **means the discharge from an open standpipe during soaking of visible emissions due to either incomplete coking or leakage into the standpipe from the collecting main.**

Standpipe **means an apparatus on the oven that provides a passage for gases from an oven to the atmosphere when the oven is dampered off the collecting main and the standpipe cap is opened. This includes mini-standpipes that are not connected to the collecting main.**

Tall battery **means a by-product coke oven battery with ovens five meters or more in height.**

Vertical flue **means a type of coke oven heating system in which the heating flues run vertically from the bottom to the top of the oven, and flues are shared between adjacent ovens.**

Work practice standard **means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.**

Table 1 to Subpart CCCCC of Part 63—Applicability of General Provisions to Subpart CCCCC

As required in §63.7350, you must comply with each applicable requirement of the NESHAP General Provisions (40 CFR part 63, subpart A) as shown in the following table:

Citation	Subject	Applies to Subpart CCCCC?	Explanation
§ 63.1	Applicability	Yes	
§ 63.2	Definitions	Yes	
§ 63.3	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes	
§ 63.5	Construction/Reconstruction	Yes	
§ 63.6(a), (b), (c), (d), (e), (f), (g), (h)(2)-(8).	Compliance with Standards and Maintenance Requirements.	Yes	
§ 63.6(h)(9)	Adjustment to an Opacity Emission Standard.	Yes.	
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes..	
§ 63.7(a)(1)-(2).	Applicability and Performance Test Dates	No	Subpart CCCCC specifies applicability and dates.
§ 63.8(a)(1)-(3), (b), (c)(1)- (3), (c)(4)(i)-(ii), (c)(5)-(8), (d), (e), (f)(1)-(5), (g)(1)-(4).	Monitoring Requirements	Yes	CMS requirements in §63.8(c)(4) (i)-(ii), (c)(5), and (c)(6) apply only to COMS for battery stacks.
§ 63.8(a)(4)	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Flares are not a control device for Subpart CCCCC affected sources.
§ 63.8(c)(4)	Continuous Monitoring System (CMS) Requirements.	No	Subpart CCCCC specifies requirements for operation of CMS.
§ 63.8(e)(4)-(5)	Performance Evaluations	Yes.	Except COMS performance evaluation must be conducted before the compliance date.
§ 63.8(f)(6).	RATA Alternative	NO	Subpart CCCCC does not require CEMS.
§ 63.8(g)(5)	Data Reduction	NO	Subpart CCCCC specifies data that can't be used in computing averages for COMS.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply only to COMS for battery stacks.
§ 63.10(a), (b)(1)-(b)(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6), (c)(9)-(15), (d),	Recordkeeping and Reporting Requirements	Yes.	Additional records for CMS in §63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for

(e)(1)-(2), (e)(4), (f).			**battery stacks.**
§ 63.10(b)(2)(xi)-(xii)	**CMS Records for RATA Alternative**	**No**	**Subpart CCCCC doesn't require CEMS.**
§ 63.10(c)(7)-(8)	**Records of Excess Emissions and Parameter Monitoring Exceedances for CMS.**	**No.**	**Subpart CCCCC specifies record requirements.**
§ 63.10(e)(3).	**Excess Emission Reports**	**No**	**Subpart CCCCC specifies reporting requirements.**
§ 63.11	**Control Device Requirements.**	**No**	**Subpart CCCCC does not require flares.**
§ 63.12	**State Authority and Delegations**	**Yes**	
§§ 63.13-63.15	**Addresses, Incorporation by Reference, Availability of Information.**	**Yes**	

Comment 93

Section D.3, Facility Descriptions, Items (a) through (e)
USS requests the following corrections:

(a) Control Station ~~Recovery~~ No.1 ~~Suction Control System~~

(1) Four (4) Predecanters D-101A, D-101B, D-101C and D-101D, identified as CBP10100, CBP20101, CBP30102 and CBP30103, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72- inch Suction Main.

(2) Two (2) Still Decanters D-102B and D-102A, identified as CBD00104 and CBD00105, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-5 and D-4, identified as CBD20107 and CBD30108, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanket system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(4) One (1) Bleed-Off Tank, B101 identified as CBB10106, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(5) One (1) Liquor Storage Tank T-7, identified as CBL10109, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(6) Two (2) Tar Storage Tanks T-2 and T-3, identified as CBT00110 and CBT00111, constructed in 1968 ~~1991~~, with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction

Main.

(7) One (1) Storage Tank T-6, identified as CBT20112, constructed in 1968 ~~1991~~, with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(8) Two (2) PC Tar Storage Tanks T-363D and T-363A, identified as CBT30113 and CB40114, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(9) One (1) Dry Tar Storage Tank T-9, identified as CBT50115, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(10) One (1) Sump S-9 serving Dry Tar Storage Tank ST-9, identified as CBS10116, constructed in 1991, with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(b) Control Station ~~Recovery~~ No.2 ~~Suction Control System~~

(1) Three (3) Tar Tanks T-304C, T-304B and T-304A , identified as CBT60118, CBT70119, and CBT80121, constructed in 1990, 1953 and 1953, respectively, ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(2) One (1) Tar Feed Tank T-306C, identified as CBTF0164, constructed in 1953 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(3) One (1) Wash Oil Tank T-331AN, identified as CBO10123, constructed in 1961 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 into the 72-inch Suction Main.

(4) Two (2) Light Oil Storage Tanks T-312 and T-311, identified as CBO20124 and CBO30125, constructed in 1953 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(5) One (1) sump S-304/306, constructed in 1996 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(c) Control Station No. 3 ~~Suction Control System~~

(1) Four (4) Predecanters D-105A, D-105B, D-105C and D-105D, identified as CBP70137, CBP80138, CBP50139 and CBP60140, constructed in 1976 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(2) Two (2) Still Decanters D-106A and D-106B, identified as CBD60134 and CBD70136, constructed in 1976 ~~1991~~, with ~~VOC emission~~ vapors directed by a

natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-6 and D-7, identified as CBD40132 and CBD50133, constructed in 1976 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(4) Two (2) Tar Decanters D-5/7N and D-5/7S, identified as CBD80141 and CBD90142, constructed in 1953 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(5) One (1) Bleed-Off Tank B-104, identified as CBB20135, constructed in 1976 ~~1991~~with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(6) One (1) Liquor Surge Tank T-11, identified as CBL60131, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(d) Control Station No. 4 ~~Suction Control System~~

(1) Four (4) Circulating Liquor Decanters L-100B, L-100C, L-100D and L-100E, identified as CBC30127, CBC40128, CBC50129 and CBL80145, constructed in 1975 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(2) Two (2) Liquor Surge Tanks T-340A and T-340B, identified as CBC20126 and CBL70143, constructed in 1995 ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(3) One (1) Primary Cooler Tank T-345A, identified as CBTF0130, constructed in 1995 ~~1991~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(e) Control Station No. 5 ~~Suction Control System~~

(1) One (1) Sump of Circulating Liquor Ls-100E, identified as CBS40144, constructed in 1991, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(2) Three (3) Tar Storage Tanks T-301,T-302A, T-302B, identified as CBTA0146, CBTB0147 and CBTC0148, constructed in 1948, 1930, and 1930, respectively, ~~1991~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(3) Two (2) Storage Tanks T-7100, T7110 and T-7120, constructed and refurbished in 1997, ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(4) Two (2) Oil/Tar Separator Tanks, T-7000 and T-7010, constructed in 1997 ~~1999~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(5) Two (2) Oil and Tar Receiver ~~Separator~~ Tanks, T-7020 and T-7030, constructed in 1997 ~~1999~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

~~*(6) One (1) Surge Tank T-7800, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main*~~.

Explanation: The facility name was corrected, because the control stations do not control suction. The installation dates were revised to reflect the correct installation dates. All of the units listed in this description box are totally enclosed and are connected to a vapor recovery system. Therefore the VOC emissions are not generated. Using the term "VOC emission" is not a correct representation of these processes.

Response to Comment 93

Condition A.3 and Section D.3 (a) through (e) description box are revised as follows:

(a) **Control Station** ~~Recovery~~ No.1 ~~Suction Control System~~

(1) Four (4) Predecanters D-101A, D-101B, D-101C and D-101D, identified as CBP10100, CBP20101, CBP30102 and CBP30103, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72- inch Suction Main.

(2) Two (2) Still Decanters D-102B and D-102A, identified as CBD00104 and CBD00105, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-5 and D-4, identified as CBD20107 and CBD30108, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanket system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(4) One (1) Bleed-Off Tank **B101**, identified as CBB10106, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(5) One (1) Liquor Storage Tank T-7, identified as CBL10109, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(6) Two (2) Tar Storage Tanks T-2 and T-3, identified as CBT00110 and CBT00111, constructed in **1968** ~~1991~~, with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(7) One (1) Storage Tank T-6, identified as CBT20112, constructed in **1968** ~~1991~~,

with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(8) Two (2) PC Tar Storage Tanks T-363D and T-363A, identified as CBT30113 and CB40114, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(9) One (1) Dry Tar Storage Tank T-9, identified as CBT50115, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(10) One (1) Sump S-9 serving Dry Tar Storage Tank ST-9, identified as CBS10116, constructed in 1991, with ~~VOC emission~~ vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(b) ~~Recovery~~ **Control Station** No. 2 ~~Suction Control System~~

(1) Three (3) Tar Tanks T-304C, T-304B and T-304A , identified as CBT60118, CBT70119, and CBT80121, constructed in **1990, 1953 and 1953, respectively,** with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(2) One (1) Tar Feed Tank T-306C, identified as CBTF0164, constructed in **1953** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(3) One (1) Wash Oil Tank T-331AN, identified as CBO10123, constructed in **1961** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 into the 72-inch Suction Main.

(4) Two (2) Light Oil Storage Tanks T-312 and T-311, identified as CBO20124 and CBO30125, constructed in **1953** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(5) One (1) sump S-304/306, constructed in **1996** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(c) **Control Station** No. 3 ~~Suction Control System~~

(1) Four (4) Predecanters D-105A, D-105B, D-105C and D-105D, identified as CBP70137, CBP80138, CBP50139 and CBP60140, constructed in **1976** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(2) Two (2) Still Decanters D-106A and D-106B, identified as CBD60134 and CBD70136, constructed in **1976** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-6 and D-7, identified as CBD40132 and CBD50133, constructed in **1976** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(4) Two (2) Tar Decanters D-5/7N and D-5/7S, identified as CBD80141 and CBD90142, constructed in **1953** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(5) One (1) Bleed-Off Tank B-104, identified as CBB20135, constructed in **1976** ~~1991~~with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(6) One (1) Liquor Surge Tank T-11, identified as CBL60131, constructed in **1975** ~~1991~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(d) **Control Station** No. 4 ~~Suction Control System~~

(1) Four (4) Circulating Liquor Decanters L-100B, L-100C, L-100D and L-100E, identified as CBC30127, CBC40128, CBC50129 and CBL80145, constructed in **1975** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(2) Two (2) Liquor Surge Tanks T-340A and T-340B, identified as CBC20126 and CBL70143, constructed in **1995** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(3) One (1) Primary Cooler Tank T-345A, identified as CBTF0130, constructed in **1995** ~~1991~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(e) **Control Station** No. 5 ~~Suction Control System~~

(1) One (1) Sump of Circulating Liquor Ls-100E, identified as CBS40144, constructed in 1991, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(2) Three (3) Tar Storage Tanks T-301,T-302A, T-302B, identified as CBTA0146, CBTB0147 and CBTC0148, constructed in **1948, 1930, and 1930, respectively,** ~~1991~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(3) Two (2) Storage Tanks T-7100, T7110 and T-7120, constructed **and refurbished** in **1997** ~~1991~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(4) Two (2) Oil**/**Tar Separator Tanks, T-7000 and T-7010, constructed in **1997** ~~1999~~, with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051

to Control Station No. 5 and into the 72-inch Suction Main.

(5) Two (2) Oil **and** Tar **Receiver** ~~Separator~~ Tanks, T-7020 and T-7030, constructed in **1997** ~~1999~~ with ~~VOC emission~~ vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

~~(6) One (1) Surge Tank T-7800, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main~~.

Comment 94

Section D.3, Facility Descriptions, Items (f) through (i)
USS requests the following corrections:

(f) One (1) Surge Tank T-7800, constructed in 1997, with vapors directed to a nitrogen gas blanketing system.

g~~(f)~~ Distillation Sump Emission Control
One (1) Distillation Sump Emission Control System, identified as CBS80151, constructed in 1989 ~~1991~~, with vapors directed to a nitrogen gas blanketing system. ~~uses a nitrogen gas blanketing system to control fugitive VOC emission vapors~~

(h) ~~(g)~~ Coke Oven Gas (COG) High Pressure Control System, constructed in 1991, contains instrumentation and control valves designed to limit the maximum pressure in the COG distribution system. Excess COG pressure is directed to and combusted in a bleeder flare with emissions exhausting to Stack CG6077.

(i) ~~(h)~~ Equipment in Benzene Service consists of several hundred components: pumps, exhausters, valves, flanges and pressure relief devices in benzene ~~light oil~~ service within the byproducts plant.

Response to Comment 94

Condition A.3 and Section D.3 (f) through (i) description box are revised as follows:

(f) One (1) Surge Tank T-7800, constructed in 1997, with vapors directed to a nitrogen gas blanketing system.

g~~(f)~~ Distillation Sump Emission Control
One (1) Distillation Sump Emission Control System, identified as CBS80151, constructed in **1989** ~~1991~~**, with vapors directed to a nitrogen gas blanketing system.** ~~uses a nitrogen gas blanketing system to control fugitive VOC emission vapors~~

(h) ~~(g)~~ Coke Oven Gas (COG) High Pressure Control System, constructed in 1991, contains instrumentation and control valves designed to limit the maximum pressure in the COG distribution system. Excess COG pressure is directed to and combusted in a bleeder flare with emissions exhausting to Stack CG6077.

(i) ~~(h)~~ Equipment in Benzene Service consist of several hundred components pumps, exhausters, valves, flanges and pressure relief devices in b**enzene** ~~light oil~~ service within the byproducts plant.

Comment 95

Section D.3.2, Item (d)(2)
USS requests the following corrections.

> *(2) Each piece of equipment in benzene service to which 40 CFR 61.135 and 326 IAC 14-9-5 apply, shall be marked in such a manner that it can be distinguished readily from other pieces of equipment in benzene service.*

Explanation: This correction clarifies the permit condition.

Response to Comment 95

The addition of language from the rule clarifies the condition. Therefore the permit is revised as follows:

> (2) Each piece of equipment in benzene service to which 40 CFR 61.135 and 326 IAC 14-9-5 apply, shall be marked in such a manner that it can be distinguished readily from other pieces of equipment **in benzene service**.

Comment 96

Section D.3.2, Item (d)(3)
USS requests the following corrections.

> *(3) Each exhauster shall be monitored quarterly to detect leaks by the methods specified in 40 CFR 61, Subpart V, Section 61.245(b) and 326 IAC 14-8-3(a), except as provided in subsections 40 CFR 61.136(d) and 40 CFR 61.135 (e)-(g) ~~40 CFR 61.135 (e) through (g)~~, 326 IAC 14-9-5 (e), (f) and (g) and in 326 IAC 14-9-6(c).*

Explanation: This revision provides the correct regulatory citation.

Response to Comment 96

The provision for a request to the alternative work practice standard rule cite is added. The permit is revised as follows:

> (3) Each exhauster shall be monitored quarterly to detect leaks by the methods specified in 40 CFR 61, Subpart V, Section 61.245(b) and 326 IAC 14-8-3(a), except as provided in subsections **40 CFR 61.136(d), 40 CFR 61.135 (e) - (g)**, 326 IAC 14-9-5 (e), (f) and (g) and in 326 IAC 14-9-6(c).

Comment 97

Section D.3.2, Item (d)(4)(F)
USS requests the following corrections

> *(F) If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 61.135(e)(4)(ii) ~~subsection 40 CFR 61.135(e)(5) of this section~~, a leak is detected.*

Explanation This revision provides the correct regulatory citation and inserts missing rule language.

Response to Comment 97

To clarify and add language to the condition, the permit is revised as follows:

(F) If the sensor indicates failure of the seal system, the barrier system, or **both based** on the criterion determined under 40 CFR 61.135(e)(4)(ii) ~~subsection 40 CFR 61.135(e)(5) of this section~~, a leak is detected.

Comment 98

Section D.3.2, Item (d)(5) and (d)(6)
USS requests the following corrections

(5) An exhauster is exempt from the requirements of subsection 40 CFR 61.135(d) ~~of this section~~ if it is equipped with a closed vent system capable of capturing and transporting any leakage from the seals to a control device that complies with the requirements of 40 CFR 61, Subpart V, Section 61.242-11 except as provided in ~~subsection~~ 40 CFR 61.135 (g) ~~of this section~~.

(6) Any exhauster that is designated, as described in 40 CFR 61, Subpart V, Section 61.246(e) and in 326 IAC 14-8-4(d), (e), (f), and (g) for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of ~~subsection~~ 40 CFR 61.135(d) ~~of this section~~ if

Response to Comment 98

To clarify the language in the condition, the permit is revised as follows:

(5) An exhauster is exempt from the requirements of subsection 40 CFR 61.135(d) ~~of this section~~ if it is equipped with a closed vent system capable of capturing and transporting any leakage from the seals to a control device that complies with the requirements of 40 CFR 61, Subpart V, Section 61.242-11 except as provided in ~~subsection~~ 40 CFR 61.135 (g) ~~of this section~~.

(6) Any exhauster that is designated, as described in 40 CFR 61, Subpart V, Section 61.246(e) and in 326 IAC 14-8-4(d), (e), (f), and (g) for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of ~~subsection~~ 40 CFR 61.135(d) ~~of this section~~ **if**

(A) The exhauster is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in 40 CFR 61, Subpart V, Section 61.245(c) and in 326 IAC 14-8-3(b); and

(B) The exhauster is tested for compliance with 40 CFR 61.135(g)(1) initially upon designation, annually, and at other times requested by the commissioner.

Comment 99

Section D.3.3
USS requests the following corrections

> *Pursuant to 40 CFR 61 Subpart V, and 326 IAC 14, the Permittee shall control the HAPs emitted from equipment leaks in accordance with 40 CFR 61, Subpart V - National Emission Standard for Equipment Leaks (Fugitive Emission Sources), Sections 61.242-1 through 61.242-11, where applicable. .~~247~~. The provisions apply to equipment in benzene service at the coke byproducts plant.*

Explanation: This revision provides the correct regulatory citation for standards in Subpart V.

Response to Comment 99

To clarify which rule citations refer to the equipment standards in 40 CFR 61, Subpart V.

> Pursuant to 40 CFR 61 Subpart V, and 326 IAC 14, the Permittee shall control the HAPs emitted from equipment leaks in accordance with 40 CFR 61, Subpart V - National Emission Standard for Equipment Leaks (Fugitive Emission Sources), Sections 61.242**-1** through **61.242-11, where applicable.** .~~247~~. The provisions apply to equipment in benzene service at the coke byproducts plant.

Comment 100

Section D.3.3
USS requests the following item be inserted.

> *(b) Pursuant to 40 CFR 242-1(e), equipment in vacuum service is excluded from the requirements of 40 CFR 61.242-2 through 61.242-11, if it is identified as required in 40 CFR 61.246(e)(5).*

Explanation: This important rule language should be added to the permit.

Section 3.3, Item (b)

> *(c)~~(b)~~ Pursuant to 40 CFR 61.242-4 (Standards: Pressure relief devices in gas/vapor service), the standards listed below apply to pressure relief devices in gas/vapor service:*

Response to Comment 100

This language is added to include equipment in vacuum service. The conditions are renumbered as necessary. The permit is revised as follows:

> **(b) Pursuant to 40 CFR 242-1(e), equipment in vacuum service is excluded from the requirements of 40 CFR 61.242-2 through 61.242-11, if it is identified as required in 40 CFR 61.246(e)(5).**
>
> **(c)**~~(b)~~ Pursuant to 40 CFR 61.242-4 (Standards: Pressure relief devices in gas/vapor service), the standards listed below apply to pressure relief devices in gas/vapor service:

Comment 101

Section 3.3, Item (b)(3)
USS requests the following correction

> *(3) Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in 40 CFR 61.242-11 is exempt from the requirements of 40 CFR 61.242-4 (a) and (b) ~~(b)(1) and (2~~).*

Explanation: This revision provides the correct regulatory citation.

Response to Comment 101

To clarify the references in the condition, the permit is revised as follows:

> (3) Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in 40 CFR 61.242-11 is exempt from the requirements of 40 CFR 61.242-4 **(a) and (b).** ~~(b)(1) and (2).~~

Comment 102

Section 3.3, Item (c)
USS requests the following correction

> *(d) ~~(c)~~ Pursuant to 40 CFR 61.242-5 (Standards: Sampling connecting systems), the standards listed below apply to sampling connecting systems:*
>
> *(1) Each sampling connection system shall be equipped with a closed-purge system or closed vent system, except as provided in 40 CFR 242-1(c).*
>
> *(2) Each closed-purge system or closed-vent system as required in paragraph D.3.3(c)(1) shall:*
>
> *(i) return the purged process fluid to the process line, or ~~with zero VHAP emissions to atmosphere~~.*
>
> *(ii) Collect and recycle the purged process fluid or,*
>
> *(iii) Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements 40CFR 61.242-11.*
>
> *(3) In-situ sampling systems are exempt from the requirements of items (1) and (2) above.*

Explanation: These revisions provide consistency with the rule language to avoid translation errors. Much of the rule language omitted from the permit was inserted here.

Section D.3.3, Item (d)
USS requests the following correction

> *(e) ~~(d)~~ Pursuant to 40 CFR 61.242-6 (Standards: Open-ended valves or lines), the standards listed below apply to open-ended valves or lines:*

Response to Comment 102

To clarify and add language to the condition (c) and renumber conditions (c) and (d) to (d) and (e), the permit is revised as follows:

(d) ~~(c)~~ Pursuant to 40 CFR 61.242-5 (Standards: Sampling connecting systems), the standards listed below apply to sampling connecting systems:

(1) Each sampling connection system shall be equipped with a closed-purge system or closed vent system, **except as provided in 40 CFR 242-1(c).**

(2) Each closed-purge system or closed-vent system as required in paragraph D.3.3(c)(1) shall **do the following:**

(A) **R**~~r~~eturn the purged process fluid to the process line, **or** ~~with zero VHAP emissions to atmosphere~~.

(B) Collect and recycle the purged process fluid or,

(C) Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements 40 CFR 61.242-11.

(3) In-situ sampling systems are exempt from the requirements of items (1) and (2) above.

(e)~~(d)~~ Pursuant to 40 CFR 61.242-6 (Standards: Open-ended valves or lines), the standards listed below apply to open-ended valves or lines:

(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in paragraph (d)(4) of this condition.

(2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

(3) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(4) When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (d)(1) of this condition at all other times.

Comment 103

Section D.3.3, Item (e)
USS requests the following correction

> *(f) ~~(e)~~ Pursuant to 40 CFR 61.242-9 (Standards: Product accumulator vessels), each product accumulator vessel shall be equipped with a closed-vent system capable of capturing and transporting any leakage from the vessel to the control device ~~activated carbon canister system.~~*

Explanation: There are no activated carbon canisters systems at this facility. Additionally, 40 CFR 61, Subpart V does not discuss these systems.

Response to Comment 103

The reference to activated carbon canisters systems is no longer in the 40 CFR 61 Subpart V rule language nor a control device at this facility. Therefore the reference to this control equipment is deleted. The revised language includes language from 40 CFR 61.242-9 that was added to 40 CFR 61.242-9 in December 14, 2000 and incorporated by reference into Indiana rules August 26, 2004. Condition (e), is renumbered condition (f). The permit is revised as follows:

> **(f)** ~~(e)~~ Pursuant to 40 CFR 61.242-9 (Standards: ~~Product accumulator~~ **Surge control** vessels **and bottoms receivers**), each **surge control** vessels **and bottoms receiver that is not routed back to the process, located at existing sources with a capacity less than or equal to 75 cubic meters and less than 151 cubic meters and a vapor pressure greater than or equal to 13.1 KPa; or with a capacity less than or equal to 151 cubic meters and a vapor pressure greater than or equal to 5.2 KPa** shall be equipped with a closed-vent system capable of capturing and transporting any leakage from the vessel **back** to the **process or to a control device** ~~activated carbon canister system~~ **as described in 40 CFR 61.242-11.**

Comment 104

Section D.3.3, Item (f)
USS requests the following correction

> *(g) ~~(f)~~ Pursuant to 40 CFR 61.242-11 (Standards: Closed-vent systems and control devices), the Permittee shall comply with the provisions of this paragraph ~~for~~ the closed-vent systems and control devices ~~activated carbon canister system:~~*
>
> *(1) Vapor recovery systems ~~The activated carbon canister system~~ shall be designed and operated to recover the organic vapors vented to them with an efficiency of 95 percent or greater or to an exit concentration of 20 parts per million by volume, whichever is less stringent. .*
>
> *(2) Closed-vent systems shall be designed for and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods specified in 40 CFR 61.245(c).*
>
> *(3) The closed-vent system and control devices ~~activated carbon canister system:~~ shall be operated at all times when emissions may be vented to them.*

Explanation: There are no activated carbon canisters systems at this facility. Additionally, 40 CFR 61, Subpart V does not discuss these systems.

Response to Comment 104

The reference to activated carbon canisters systems is no longer in the 40 CFR 61 Subpart V rule language nor a control device at this facility. Therefore the reference to this control equipment is deleted. The revised language includes language from 40 CFR 61.242-11 that was added to 40 CFR 61.242-11 in December 14, 2000 and incorporated by reference into Indiana rules August 26, 2004. Condition (f), is renumbered condition (g). The permit is revised as follows:

(g) ~~(f)~~ Pursuant to 40 CFR 61.242-11 (Standards: Closed-vent systems and control devices), the Permittee shall comply with the provisions of this paragraph ~~for~~ the closed-vent system**s** and **control devices** ~~activated carbon canister system:~~

(1) **Vapor recovery systems** ~~The activated carbon canister system~~ shall be designed and operated to recover the organic vapors vented to them with an efficiency of 95 percent or greater **or to an exit concentration of 20 parts per million by volume, whichever is less stringent.**

(2) Closed-vent systems shall be designed for and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods specified in 40 CFR 61.245(c).

(3) The closed-vent system and **control devices** ~~activated carbon canister system:~~ shall be operated at all times when emissions may be vented to them.

Comment 105

Section D.3.4
USS requests the following correction

D.3.4 National Emission Standard for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations [40 CFR Part 61, Subpart FF] [326 IAC 14]

Pursuant to 40 CFR 61.342(a), the Permittee of a coke byproduct recovery plant ~~facility~~ at which the total annual benzene quantity from facility waste is less than 10 megagrams per year (Mg/yr) (11 ton/yr) shall be exempt from the requirements of 40 CFR 61.342(b) and (c).

Explanation: This connection clarifies the specific facility that this permit condition applies.

Response to Comment 105

Since this rule applies to several types of facilities, addition of the specific facility name clarifies the condition language. The permit is revised as follows:

D.3.4 National Emission Standard for Hazardous Air Pollutants (NESHAP) - Benzene Waste Operations [40 CFR Part 61, Subpart FF] [326 IAC 14]

Pursuant to 40 CFR 61.342(a), the Permittee of a **coke byproduct recovery plant** ~~facility~~ at which the total annual benzene quantity from facility waste is less than 10 megagrams per year (Mg/yr) (11 ton/yr) shall be exempt from the requirements of 40 CFR 61.342(b) and (c).

Comment 106

Section D.3.6
USS requests the following correction

D.3.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventative Maintenance Plan of this permit is required for emission control devices at this facility. ~~these facilities and any associated control devices~~.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not an entire operation or process. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 106

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the By Product Plant facilities themselves because lack of proper maintenance on the Coke By Product Plant units can result in increased emissions. Therefore, the permit is not revised as a result of this comment.

Comment 107

Section D.3.7
USS requests the following correction

D.3.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant: Benzene Compliance Requirements [40 CFR 61, Subpart L][326 IAC 14]

Pursuant to 40 CFR 61.136(b), the Permittee shall ~~do the following to~~ determine compliance with 40 CFR 61.132 through 61.135 by:

~~(a) The Permittee shall~~ reviewing records, performance test results, inspections or any combination thereof, using the methods and procedures specified in 40 CFR 61~~60~~.137. Pursuant to 40 CFR 61.137:

(a) ~~(b)~~ The Permittee subject to the provisions of 40 CFR 61 Subpart L shall comply with the requirements in 40 CFR 61.245 of 40 CFR 61, Subpart V.

(b) ~~(c)~~ To determine whether or not a piece of equipment is in benzene service, the methods in 40 CFR 61.245(d) shall be used, except that, for exhausters , the percent benzene shall be 1 percent by weight rather than the ten percent by weight described in 40 CFR 61.245(d).

Explanation: This correction revises the permit condition for consistency with the regulations.

Response to Comment 107

To clarify rule language, the permit is revised as follows:

D.3.7 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Coke By-product Recovery Plant: Benzene Compliance Requirements [40 CFR 61, Subpart L][326 IAC 14]

(a) Pursuant to 40 CFR 61.136(b), the Permittee shall ~~do the following to~~ determine compliance **with 40 CFR 61.132 through 61.135 by**

~~(a) The Permittee shall~~ review**ing** records, performance test results, inspections or any combination thereof, using the methods and procedures specified in 40 CFR **61**~~60~~.137.

(b) **Pursuant to 40 CFR 61.137(a)** ~~T~~the Permittee subject to the provisions of 40 CFR 61 Subpart L shall comply with the requirements in 40 CFR 61.245 of 40 CFR 61, Subpart V.

(c) **Pursuant to 40 CFR 61.137(b)** t~~T~~o determine whether or not a piece of equipment is in benzene service, the methods in 40 CFR 61.245(d) shall be used, except that, for exhausters , the percent benzene shall be 1 percent by weight rather than the ten percent by weight described in 40 CFR 61.245(d).

Comment 108

Section D.3.8, Item (a)(1)
USS requests the following correction

(1) Each pump shall be monitored monthly to detect leaks by the methods specified in 40 CFR 61.245(b), except as provided in 40 CFR 242-2(d)–(f).

Explanation: This correction adds the regulatory citation for an applicable exclusion.

Response to Comment 108

To add the applicable exclusion citation, the permit is revised as follows:

(1) Each pump shall be monitored monthly to detect leaks by the methods specified in 40 CFR 61.245(b), **except as provided in 40 CFR 242-2(d)–(f).**

Comment 109

Section D.3.7
USS requests the following item be inserted:

> *(7) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of item (2) of this condition and 40 CFR 61.242-2(d), provided that each pump is visually inspected as often as practical and at least monthly.*

Explanation: This correction adds the regulatory citation for an applicable exclusion.

Response to Comment 109

To add the applicable exclusion citation, the permit is revised as follows:

> **(7) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of item (2) of this condition and 40 CFR 61.242-2(d), provided that each pump is visually inspected as often as practical and at least monthly.**

Comment 110

Section D.3.8, Item (c)(1)
USS requests the following item to be inserted:

> (1) *Each valve shall be monitored monthly to detect leaks by the method specified in 40 CFR 61.245(b), except as provided in items (c)(8)-(10) of this condition.*

Response to Comment 110

To add the applicable exclusion citation, the permit is revised as follows:

> (1) Each valve shall be monitored monthly to detect leaks by the method specified in 40 CFR 61.245(b)**, except as provided in 40 CFR 61.242-7(f), (g) and (h), 40 CFR 61.243-1 or 40 CFR 61.243-2 and 40 CFR 242-1(c).**

Comment 111

Section D.3.8, Item (c)
USS requests the following items to be inserted:

> *(8) Any valve that is designated, as described in 40 CFR 61.246(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of item (c)(1) of this condition if the valve:*
>
> *(A) Has no external actuating mechanism in contact with the process fluid;*
>
> *(B) Is operated with emissions less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c), and*

(C) Is tested for compliance with item (8)(B) of this condition initially upon designation, annually, and at other times requested by the Administrator.

(9) Any valve that is designated, as described in 40 CFR 61.246(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of item (c)(1) of this condition if:

(A) The owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to am immediate danger as a consequence of complying with item (c)(1) of this condition and

(B) The owner or operator of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.

(10) Any valve that designated as described in 40 CFR 61.246(f)(2), as a difficult-to-monitor valve is exempt from the requirements of item (c)(1) of this condition if:

(A) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface,

(B) The process unit within which the valve is located is an existing process unit and,

(C) The owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

Response to Comment 111

To add the applicable citations, the permit is revised as follows:

(8) Any valve that is designated, as described in 40 CFR 61.246(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of 40 CFR 61.242-7(a) if the valve:

(A) Has no external actuating mechanism in contact with the process fluid;

(B) Is operated with emissions less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c), and

(C) Is tested for compliance with item (8)(B) of this condition initially upon designation, annually, and at other times requested by the IDEM.

(9) Any valve that is designated, as described in 40 CFR 61.246(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of 40 CFR 61.242-7(a) if:

(A) The Permittee of the valve demonstrates that the valve is unsafe to

monitor because monitoring personnel would be exposed to am immediate danger as a consequence of complying with 40 CFR 61.242-7(a) and

(B) The Permittee of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.

(10) Any valve that designated as described in 40 CFR 61.246(f)(2), as a difficult-to-monitor valve is exempt from the requirements of 40 CFR 61.242-7(a) if:

(A) The Permittee of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface,

(B) The process unit within which the valve is located is an existing process unit and,

(C) The Permittee of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

Comment 112

Section D.3.8, Item (d)(4)
USS requests the following correction:

(4) First attempts at repair include, but are not limited to, the best practices described under ~~40 CFR 61.242-7(e) and~~ paragraph (c)(7) of this condition.

Explanation: These citations refer to the same language.

Response to Comment 112

The extra reference to the same language is removed. The permit is revised as follows:

(4) First attempts at repair include, but are not limited to, the best practices described under 40 CFR 61.242-7(e) ~~and paragraph (c)(7) of this condition~~.

Comment 113

Section D.3.8, Items (e)(3)(B) and (f)
USS requests the following correction:

(B) When repair procedures are affected, the purged material is collected and destroyed or recovered in the control device complying with 40 CFR 61.242-11 ~~activated carbon canister system.~~

(f) Pursuant to 40 CFR 61.242-11(e), the Permittee shall monitor control devices ~~the activated carbon canister system~~ to ensure they are ~~that it is~~ operated and maintained in conformance with its design.

Explanation: There are no activated carbon canister systems at this facility. Additionally, 40 CFR 61,

Subpart V does not discuss these systems.

Response to Comment 113

The reference to activated carbon canisters systems is no longer in the 40 CFR 61 Subpart V rule language nor a control device at this facility. Therefore the reference to this control equipment is deleted. The revised language includes language from 40 CFR 61.242-11 that was added to 40 CFR 61.242-11 in December 14, 2000 and incorporated by reference into Indiana rules August 26, 2004. The permit is revised as follows:

(B) When repair procedures are affected, the purged material is collected and destroyed or recovered in the **control device complying with 40 CFR 61.242-11** ~~activated carbon canister system.~~

(f) Pursuant to 40 CFR 61.242-11(e), the Permittee shall monitor **control devices** ~~the activated carbon canister system~~ to ensure **they are** ~~that it is~~ operated and maintained in conformance with its design.

Comment 114

Section D.3.8, Item (g)
USS requests the following correction:

(g) Pursuant to 40 CFR 61.242-11(f), the monitoring requirements listed below apply to ~~the~~ closed-vent system<u>s</u>.

Response to Comment 114

To correct typos, the permit is revised as follows:

(g) Pursuant to 40 CFR 61.242-11(f), the monitoring requirements listed below apply to ~~the~~ closed-vent system**s**.

Comment 115

Section D.3.9, Item (a)
USS requests the following correction:

(a) <u>Monitoring required under 40 CFR 61, Subpart V and 40 CFR 61.135 of Subpart L</u> ~~When equipment is tested for compliance with or monitored for no detectable emissions in accordance with the standard for pressure relief devices in 40 CFR 61.242-4 and closed-vent system in 40 CFR 61.242-11, the Permittee~~ shall comply with the following requirements <u>in accordance with 40 CFR 61.245</u>:

(1) <u>Monitoring shall comply with r</u>~~R~~eference Method 21 of Appendix A of 40 CFR part 60 procedures and performance criteria ~~shall be used to~~

(A) <u>The detection instrumentation shall meet the Performance criteria of Method 21.</u> ~~Meet the detection instrument calibration~~

(B) Instrument shall be calibrated before use on each day of its use;

(C) Calibration gases shall be;

(i) Zero air (less than 10 ppm of hydrocarbon in air); and

(ii) A mixture of methane or n– hexane and air at a concentration of approximately, but less than 10,000 ppm methane or n- hexane.

(D) The instrument probe shall be traversed around all potential leak interfacings.

(E) When equipment is tested for compliance with or monitored for no detectable emissions, the background level shall be determined in accordance with Method 21. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

(2) Each piece of equipment within a process unit that can conceivably contain equipment in VHAP service is presumed to be in VHAP service unless the permittee demonstrates that the piece of equipment is not in VHAP service in accordance with 40 CFR 61.245(d)(1) or (2). For a piece of equipment to be considered not in VHAP service, it must be determined that the percent VHAP content can be reasonable expected never to exceed 10 percent by weight. ~~if the percent VHAP content exceeds ten (10) percent by weight.~~

(3) Samples used to determine the percent VHAP content shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

~~*(4) Method 22 of appendix 40 CFR 60 shall be used to determine compliance of flares with the visible emissions provisions of this subpart.*~~

~~*(5) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect a flame.*~~

Explanation: The first paragraph of item (a) was revised because the permit condition applies to all monitoring under the citation listed. Item (1)(E) was added pursuant to 40 CFR 61.245(c). Item (2) was revised because the language cited was not correct. Correct language was added to clarify applicability and requirements. Items (4) and (5) were deleted because flares are not used in this facility.

Response to Comment 115

To clarify the citation includes all the monitoring that applies, add language that applies to equipment and delete language for equipment that is not at the facility, the permit is revised as follows:

(a) **Monitoring required under 40 CFR 61, Subpart V and 40 CFR 61.135 of Subpart L** ~~When equipment is tested for compliance with or monitored for no detectable emissions in accordance with the standard for pressure relief devices in 40 CFR 61.242-4 and closed-vent system in 40 CFR 61.242-11, the Permittee~~ shall comply with the following requirements **in accordance with 40 CFR 61.245:**

(1) **Monitoring shall comply with r**~~R~~eference Method 21 of Appendix A of 40 CFR Part 60 procedures and performance criteria ~~shall be used to~~

(A) **The detection instrumentation shall meet the Performance criteria**

of Method 21. ~~Meet the detection instrument calibration~~

(B) Instrument shall be calibrated before use on each day of its use;

(C) Calibration gases shall be;

(i) Zero air (less than 10 ppm of hydrocarbon in air); and

(ii) A mixture of methane or n– hexane and air at a concentration of approximately, but less than 10,000 ppm methane or **n**-hexane.

(D) The instrument probe shall be traversed around all potential leak interfacings.

(E) When equipment is tested for compliance with or monitored for no detectable emissions, the background level shall be determined in accordance with Method 21. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

(2) Each piece of equipment within a process unit that can conceivably contain equipment in VHAP service is presumed to be in VHAP service **unless the Permittee demonstrates that the piece of equipment is not in VHAP service in accordance with 40 CFR 61.245(d)(1) or (2). For a piece of equipment to be considered not in VHAP service, it must be determined that the percent VHAP content can be reasonable expected never to exceed 10 percent by weight** ~~if the percent VHAP content exceeds ten (10) percent by weight.~~

(3) Samples used to determine the percent VHAP content shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

~~(4) Method 22 of appendix 40 CFR 60 shall be used to determine compliance of flares with the visible emissions provisions of this subpart.~~

~~(5) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect a flame.~~

Comment 116

Section D.3.10 Item (a)
USS requests the following correction:

(a) For each waste stream subject to 40 CFR 61, Subpart FF, ~~*this subpart*~~ *with a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in 40 CFR 61.342(a), the Permittee shall:*

Response to Comment 116

To clarify which subpart the condition applies, the permit is revised as follows:

(a) For each waste stream subject to **40 CFR 61, Subpart FF**, ~~this subpart~~ with a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in 40 CFR 61.342(a), the Permittee shall:

(1) Determine the annual waste quantity for each waste stream using the procedures specified in 40 CFR 61.355.

(2) Determine the flow-weighted annual average benzene concentration for each waste stream using the procedures specified in 40 CFR 61.355.

(3) Calculate the annual benzene quantity for each waste stream by multiplying the annual waste quantity of the waste stream times the flow-weighted annual average benzene concentration.

Comment 117

Section D.3.10
USS requests the following correction:

(e) If the total annual benzene quantity from facility waste is less than 1 Mg/yr, then the Permittee shall:

(1) Comply with the record keeping requirements of 40 CFR 61.356 and reporting requirements of 40 CFR 61.357 of this subpart, and

(2) Repeat the determination of total annual benzene quantity from facility waste at least once per year and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity facility waste to increase to 1 MG/yr or more.

Explanation: The language is also in 40 CFR 61 Subpart FF and is pertinent to the facility.

Section D.3.10 Item (e)
USS requests the following correction:

(f)~~(e)~~ The determination of annual waste quantity for wastes at coke by-product plants subject to and complying with the control requirements of 40 CFR 61.132, 61.133, 61.134, or 61.139 of Subpart L shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions are met:

Response to Comment 117

These citations are added, since the citations could apply to this facility. Subsequent conditions are renumbered as necessary. The permit is revised as follows:

(e) If the total annual benzene quantity from facility waste is less than 1 Mg/yr (1.1 ton/yr) the Permittee shall:

(1) Comply with the record keeping requirements of 40 CFR 61.356 and reporting requirements of 40 CFR 61.357, and

(2) Repeat the determination of total annual benzene quantity from facility waste whenever there is a change in the process generating the waste that could cause the total annual benzene quantity facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more.

(f)~~(e)~~ The determination of annual waste quantity for wastes at coke by-product plants subject to and complying with the control requirements of 40 CFR 61.132, 61.133, 61.134, or 61.139 of Subpart L shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions are met:

(1) The transfer of wastes between units complying with the control requirements of 40 CFR 61 Subpart L, process units, and the ammonia still is made through hard piping or other enclosed system.

(2) The ammonia still meets the definition of a sour water stripper in 40 CFR 61.341.

Comment 118

Section D.3.10 Item (f)
USS requests the following correction:

(g)~~(f)~~ *Pursuant to 40 CFR 61.355(b), the calculation required to determine the total annual benzene quantity at the point of waste generation* ~~*from facility waste*~~ *shall be determined by one of the following methods*

Explanation: This is an important qualification statement from the rule that is pertinent to the applicability of the waste generated.

(h)~~*(g)*~~ *Pursuant to 40 CFR 61.342(g), compliance with 40 CFR 61, Subpart FF will be determined by review of facility records and results from tests and inspections using methods and procedures specified in 40 CFR 61.355.*

Explanation: Language from the rule was added.

Response to Comment 118

Condition (f) is renumbered (g). The addition of the rule language clarifies where specifically in the facility the benzene quantity total is calculated. Condition (g) is renumbered (h). The added language clarifies how compliance with the rule is determined. The permit is revised as follows:

(g)~~(f)~~ Pursuant to 40 CFR 61.355(b), the calculation required to determine the total annual benzene quantity **at the point of waste generation** ~~from facility waste~~ shall be determined by one of the following methods

(h)~~(g)~~ Pursuant to 40 CFR 61.342(g), compliance with 40 CFR 61, Subpart FF will be determined by review of facility records and **results from tests and inspections** using methods and procedures specified in 40 CFR 61.355.

Comment 119

Section D.3.11 Item (a)
USS requests the following correction:

(a) The following information pertaining to the design of control equipment installed ~~constructed~~ to comply with 40 CFR 61.132 through 61.134 shall be recorded and kept in a readily accessible location:

Explanation: This correction provides consistency with the rule to prevent translation errors.

Response to Comment 119

To include exact rule language the permit is revised as follows:

(a) The following information pertaining to the design of control equipment **installed** ~~constructed~~ to comply with 40 CFR 61.132 through 61.134 shall be recorded and kept in a readily accessible location:

Comment 120

Section D.3.11 Item (b)
USS requests the following correction:

(b) The following information pertaining to sources subject to 40 CFR 61.132 and sources subject to 40 CFR 61.133 shall be recorded and maintained for 2 years following each semiannual (and other) inspection and each annual maintenance inspection:

(1) The date of the inspection and the name of the inspector.

(2) A brief description of each visible defect in the source or control equipment and the method and date of repair of the defect ~~is to be submitted on a date scheduled by IDEM, OAQ.~~

(3) The presence of a leak, as measured using the method described in 40 CFR 61.245(c). The record shall include the date of attempted and actual repair and method of repair of leak.

(4) A brief description of any system abnormalities found during the annual maintenance inspection, the repairs made and the date of attempted repair, and the date of actual repair.

~~*(3) In the case of a new source that did not have an initial startup date preceding the effective date, the statement shall be submitted with the application for approval of construction, as described under 40 CFR 61.07.*~~

~~*(4) The statement is to contain the following information for each source:*~~

~~*(A) Type of source (e.g., a light oil sump or pump).*~~

~~*(B) For equipment in benzene service, equipment identification number and process unit identification: percent by weight benzene in the fluid at the equipment; and process fluid state in the equipment (gas/vapor or liquid).*~~

~~*(C) Method of compliance with the standard (e.g., "gas blanketing,", "monthly leak detection and repair," or "equipped with dual mechanical seals"). This includes whether the plant plans to be a furnace or foundry coke by-product recovery plant for the purposes of 40 CFR 61.132(d).*~~

Explanation: The submittal requirement in item (2) is not stated under regulation. Item (2) was revised with the correct rule language from 40 CFR 61.138(b)(2). Pertinent recordkeeping language was added. Items (3) and (4) were moved to section D.3.14, the relevant section for these conditions, which discuss reporting requirements.

Response to Comment 120

The submittal requirement in item (2) and the reporting requirements (items (3) and (4)) are deleted from this condition, since these requirements are included in Condition D.3.14 Reporting Requirements. The rule language is added to clarify recordkeeping requirements for the inspection of process vessels, storage tanks, tar intercepting sumps and light oil sumps and control devices for defects. The permit is revised as follows:

(b) The following information pertaining to sources subject to 40 CFR 61.132 and sources subject to 40 CFR 61.133 shall be recorded and maintained for 2 years following each semiannual (and other) inspection and each annual maintenance inspection:

(1) The date of the inspection and the name of the inspector.

(2) A brief description of each visible defect in the source or control equipment **and the method and date of repair of the defect.** ~~is to be submitted on a date scheduled by IDEM, OAQ.~~

(3) The presence of a leak, as measured using the method described in 40 CFR 61.245(c). The record shall include the date of attempted and actual repair and method of repair of leak.

(4) A brief description of any system abnormalities found during the annual maintenance inspection, the repairs made and the date of attempted repair, and the date of actual repair.

~~(3) In the case of a new source that did not have an initial startup date preceding the effective date, the statement shall be submitted with the application for approval of construction, as described under 40 CFR 61.07.~~

~~(4) The statement is to contain the following information for each source:~~

~~(A) Type of source (e.g., a light-oil sump or pump).~~

~~(B) For equipment in benzene service, equipment identification number and process unit identification: percent by weight benzene in the fluid at the equipment; and process fluid state in the equipment (gas/vapor or liquid).~~

~~(C) Method of compliance with the standard (e.g., "gas blanketing,", "monthly leak detection and repair," or "equipped with dual mechanical~~

~~seals"). This includes whether the plant plans to be a furnace or foundry coke by-product recovery plant for the purposes of 40 CFR 61.132(d).~~

Comment 121

Section D.3.12 Item (b)
USS requests the following correction:

(b) When each leak is detected as specified in 40 CFR 61.242-2, 242-7, ~~and~~ 242-8 and 61.135 the following requirements apply:

Explanation: The citation for exhausters applicable to this facility was added.

Response to Comment 121

The citation for exhausters is added, since the exhausters are included in the rule language. The permit is revised as follows:

(b) When each leak is detected as specified in 40 CFR 61.242-2, 242-7, ~~and~~ 242-8 **and 61.135** the following requirements apply:

(1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

(2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 61.242-7(c) and no leak has been detected during those 2 months.

(3) The identification on equipment, except on a valve, may be removed after it has been repaired.

Comment 122

Section D.3.12 Item (d)
USS requests the following correction:

(d) The following information pertaining to the design requirements for the closed-vent system and control devices ~~activated carbon canister system~~ shall be recorded and kept in a readily accessible location:

(1) Detailed schematics, design specifications, and piping and instrumentation diagrams;

(2) The dates and descriptions of any changes in the design specifications;

(3) A description of the parameter or parameters monitored, as required in 40 CFR 61.242-11(e), to ensure that control devices are ~~activated carbon canister system~~ operated and maintained in conformance with its design and an explanation of why that parameter (or parameters) was selected for the monitoring;

(4) Periods when the closed-vent system and control devices ~~activated carbon canister system~~ are not operated as designed; and,

(5) Dates of startups and shutdowns of the closed-vent system and control devices ~~activated carbon canister system.~~

Explanation: There are no activated carbon canister systems at this facility. Additionally, 40 CFR 61, Subpart V does not discuss these systems.

Response to Comment 122

Since there are no activated carbon canisters systems at this facility, the reference to this equipment is deleted and control devices are inserted. The permit is revised as follows:

(d) The following information pertaining to the design requirements for the closed-vent system and **control devices** ~~activated carbon canister system~~ shall be recorded and kept in a readily accessible location:

(1) Detailed schematics, design specifications, and piping and instrumentation diagrams;

(2) The dates and descriptions of any changes in the design specifications;

(3) A description of the parameter or parameters monitored, as required in 40 CFR 61.242-11(e), to ensure that **control devices are** ~~activated carbon canister system~~ operated and maintained in conformance with its design and an explanation of why that parameter (or parameters) was selected for the monitoring;

(4) Periods when the closed-vent system and **control devices** ~~activated carbon canister system~~ are not operated as designed; and,

(5) Dates of startups and shutdowns of the closed-vent system and **control devices** ~~activated carbon canister system~~ .

Comment 123

Section D.3.12
USS requests the following items be inserted:

(f) Information pertaining to valves that are designated as unsafe to monitor or difficult to monitor shall be kept in accordance with 40 CFR 61.246(f).

(g) Information and data used to demonstrate that a piece of equipment is not in VHAP service shall be recorded in a log that is kept in a readily accessible location

Explanation: Pertinent language applicable to this facility was added.
Response to Comment 123

The rule language is added that applies to this facility. The permit is revised as follows:

(f) The following information pertaining to valves that are designated as unsafe to monitor or difficult to monitor shall be recorded in a log that is kept in a readily accessible location:

(1) A list of the identification numbers for the valves.

(2) An explanation for each valve, stating why the valve is unsafe or difficult to monitor.

(3) The plan for monitoring each valve that is unsafe to monitor.

(4) The planned schedule for monitoring each valve that is difficult to monitor.

(g) Information and data used to demonstrate that a piece of equipment is not in VHAP service shall be recorded in a log that is kept in a readily accessible location

Comment 124

Section D.3.13, Item (c)
USS requests the following correction:

(c) Pursuant to 40 CFR 61.356(a), each record shall be maintained in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded, unless otherwise specified. Records shall also be kept in accordance with Section C.21- General Record Keeping Requirements. ~~the Permittee shall maintain each record in accordance with Section C - General Record Keeping Requirements.~~

Explanation: This correction adds consistency with rule language.

Response to Comment 124

Language from the rule is added to clarify the condition. The permit is revised as follows:

(c) Pursuant to 40 CFR 61.356(a), **the Permittee shall maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded, unless otherwise specified. Records shall also be kept in accordance with Section C- General Record Keeping Requirements.** ~~the Permittee shall maintain each record in accordance with Section C - General Record Keeping Requirements.~~

Comment 125

Section D.3.14, Item (a)(3)(C)
USS requests the following correction:

(C The results of performance tests to determine compliance with 40 CFR 61.135(g) conducted within the semiannual reporting period.

Response to Comment 125

The item number was added to the condition. The permit is revised as follows:

(C) The results of performance tests to determine compliance with 40 CFR 61.135(g) conducted within the semiannual reporting period.

Comment 126

Section D.3.14, Item (a)(5)
USS requests the following correction:

> ~~*(5) For foundry coke by-product recovery plants, the annual coke production of both furnace and foundry coke, if determined during the reporting period.*~~

Explanation: This is not a foundry coke byproduct recovery plant.

Response to Comment 126

The reference to a foundry coke byproduct recovery plant is deleted. Condition (6) is renumbered (5). The permit is revised as follows:

> ~~(5) For foundry coke by-product recovery plants, the annual coke production of both furnace and foundry coke, if determined during the reporting period.~~
>
> **(5)**~~(6)~~ Revisions to items reported according to 40 CFR 61.139(e), if changes have occurred since the initial report or subsequent revisions to the initial report.

Comment 127

Section D.3.15
USS requests the following correction:

> ~~*(a)*~~ *Pursuant to 40 CFR 61.247, the Permittee shall comply with the reporting requirements of this paragraph. A report shall be submitted to the US EPA and IDEM, OAQ semi-annually that includes the following information:*
>
> *(a)*~~*(b)*~~ *Process unit identification;*
>
> *(b)*~~*(c)*~~ *For each month during the semi-annual reporting period:*
>
> *(1) Number of valves for which leaks were detected as described in 40 CFR 61.242-7(b) and condition D.3. 8* ~~*9*~~*(c)(2);*
>
> *(2) Number of valves for which leaks were not repaired as required in 40 CFR 61.242-7(d) and condition D.3. 8* ~~*9*~~ *(c)(5)-7;*
>
> *(3) Number of pumps for which leaks were detected as described in 40 CFR 61.242-2(b) and (d)(6) and condition D.3. 8* ~~*9*~~ *(a)(3) and (4);*
>
> *(4) Number of pumps for which leaks were not repaired as required in 40 CFR 61.242-2(c) and (d)(6) and condition D.3. 8* ~~*9*~~ *(a)(5) and (6); and,*
>
> *(5) The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible.*
>
> *(6) Dates of process unit shutdowns which occurred within the semi-annual reporting period;*
>
> *(7) Revisions to items reported according to the initial report required by 40 CFR*

61.247(a)(1) if changes have occurred since the initial report or subsequent revisions to the initial report; (Note: Compliance with the requirements of 40 CFR 61.10 is not required for revisions documented under this condition); and,

(8) The results of all performance tests and monitoring to determine compliance with no detectable emissions conducted within the semi-annual reporting period.

Explanation: Regulation references were corrected. An important reference of exemption as written in 40 CFR 61.247(b)(4) was added to item (b)(7).

Response to Comment 127

The conditions are renumbered, references are corrected and exemption reference is added. The permit is revised as follows:

~~(a)~~Pursuant to 40 CFR 61.247, the Permittee shall comply with the reporting requirements of this paragraph. A report shall be submitted to the US EPA and IDEM, OAQ semi-annually that includes the following information:

(a)~~(b)~~ Process unit identification;

(b)~~(c)~~ For each month during the semi-annual reporting period:

(1) Number of valves for which leaks were detected as described in 40 CFR 61.242-7(b) and condition D.3. 8 ~~9~~(c)(2);

(2) Number of valves for which leaks were not repaired as required in 40 CFR 61.242-7(d) and condition D.3. **8** ~~9~~ (c)(5)**;**

(3) Number of pumps for which leaks were detected as described in 40 CFR 61.242-2(b) **and (d)(6**) and condition D.3**. 8** ~~9~~ (a)(3) and (4);

(4) Number of pumps for which leaks were not repaired as required in 40 CFR 61.242-2(c) **and (d)(6)** and condition D.3**. 8** ~~9~~ (a)(5) and (6);

(5) The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible;

(6) Dates of process unit shutdowns which occurred within the semi-annual reporting period;

(7) Revisions to items reported according to the initial report required by 40 CFR 61.247(a)(1) if changes have occurred since the initial report or subsequent revisions to the initial report; and

NOTE: Compliance with the requirements of 40 CFR 61.10 is not required for revisions documented under this condition.

(8) The results of all performance tests and monitoring to determine compliance with no detectable emissions conducted within the semi-annual reporting period.

Comment 128

Section D.4, Facility Description
USS requests the following correction:

(a) One (1) amine unit, constructed in 1997, removes ~~the~~ hydrogen sulfide and other organic sulfur compounds from the coke oven gas (COG) stream.

(b) One (1) reflux unit, constructed in 1997, ~~removes the~~ recycles ammonia and ~~other~~ acid gas~~es from~~ into the COG stream.

(d) One (1) sulfur recovery unit, constructed in 1997, converts ~~the~~ sulfur compounds in the acid gas stream to elemental sulfur. This sulfur is sold as a ~~by~~ product.

Explanation: Provided are corrections and clarifications in regards to the description of the desulfurization process facility.

(e) One (1) incineration unit, constructed in 1997, ~~changes the~~ converts remaining sulfur compounds not removed by the sulfur recovery unit into sulfur dioxide ~~which is burned off in the tail gas incinerator~~.

Explanation: Provided are corrections and clarifications in regards to the description of the desulfurization process facility. Also, SO_2 is not burned off in the incinerator.

Response to Comment 128

Condition A.3 and Section D.4 description box are revised as follows:

(a) One (1) amine unit, constructed in 1997, removes ~~the~~ hydrogen sulfide and other organic sulfur compounds from the coke oven gas (COG) stream.

(b) One (1) reflux unit, constructed in 1997, ~~removes the~~ **recycles** ammonia and ~~other~~ acid gas~~es from~~ **into** the COG stream.

(d) One (1) sulfur recovery unit, constructed in 1997, converts ~~the~~ sulfur compounds in the acid gas stream to elemental sulfur. This sulfur is sold as a ~~by~~ product.

(e) One (1) incineration unit, constructed in 1997, ~~changes the~~ **converts remaining** sulfur compounds not removed by the sulfur recovery unit into sulfur dioxide ~~which is burned off in the tail gas incinerator~~.

Comment 129

Section D.4.2
USS requests the following correction:

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and associated control devices.~~ the emission control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of

this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 129

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the COG desulfurization facility because lack of proper maintenance on the COG desulfurization units can result in increased emissions. Therefore, the permit is not revised as a result of this comment.

Comment 130

Section D.4.3
USS requests the following correction:

D.4.3 ~~Coke Oven Gas (COG) Desulfurization Facility Downtime~~ Lake County Sulfur Dioxide Emissions Limitations [326 IAC 7-4.1-20]

(a) ~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM and amended May 1, 2001~~, Pursuant to 326 IAC 7-4.1-20(c)(4), the Coke Oven Gas Desulfurization Plant's down time shall not exceed nine hundred and fifty (950) hours per year.

(b) *Pursuant to 326 IAC 7-4.1-20(a)(1)(H), when the coke oven gas desulfurization facility is not operating, sulfur dioxide from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 22.0 pounds per hour.*

(c) Pursuant to 326 IAC 7-4.1-20(b)(8), when the coke oven gas desulfurization facility is operating sulfur dioxide emissions from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 295 pounds per hour.

Explanation: Correction to the entire condition to incorporate new SIP for Lake County SO_2 requirements.

Response to Comment 130

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. To keep the specific emissions limitations together, the PMP requirement has been moved and renumbered condition D.4.3. Therefore the permit is revised as follows:

Note: The requirement for the Coke Oven Gas Desulfurization Plant's down time is included in the revised Lake County Sulfur Dioxide (SO_2) SIP. The Agreed Order down time language is deleted.

D.4.~~3~~ **2** ~~Coke Oven Gas (COG) Desulfurization Facility Downtime~~ **Sulfur Dioxide (SO_2) Emissions Limitations [326 IAC 7-4.1-20]**

~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM and amended May 1, 2001 the Coke Oven Gas Desulfurization Plant's down time shall not exceed nine hundred and fifty (950) hours per year.~~

Pursuant to 326 IAC 7-4.1-20 the sulfur dioxide emissions from the desulfurization plant shall be as follows:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(H), when the coke oven gas desulfurization facility is not operating, sulfur dioxide from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 22.0 pounds per hour.

(b) Pursuant to 326 IAC 7-4.1-20(b)(8), when the coke oven gas desulfurization facility is operating sulfur dioxide emissions from the Coke Oven Gas Tail Gas Incinerator stack shall not exceed 295 pounds per hour.

(c) Pursuant to 326 IAC 7-4.1-20(c)(4), the Coke Oven Gas Desulfurization Plant's down time shall not exceed nine hundred and fifty (950) hours per year.

D.4.~~2~~ **3** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and associated control devices.

Comment 131

Section D.4.4, Item (a)
USS requests the following correction:

(a) To document compliance with Condition D.4.2, the Permittee shall maintain of records of any ~~additional~~ inspections required by the Preventive Maintenance Plan.

Explanation: The term additional was deleted because all PMP inspections are required to be documented.

Response to Comment 131

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control

device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

D.4.4 Record Keeping Requirements

~~(a) To document compliance with Condition D.4.2, the Permittee shall maintain of records of any additional inspections required by the Preventive Maintenance Plan.~~

~~(b)~~**(a)** To document compliance with Condition D.4.2, the Permittee shall maintain ~~of~~ records of ~~hours of~~ the downtime **hours** of the Coke Oven Gas Desulfurization Plant.

~~(c)~~**(b)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 132

Section D.4.5
USS requests the following correction:

~~A summary report of the hours of down time of the Coke Oven Gas Desulfurization Plant shall be submitted within thirty (30) days after the end of the calendar year in accordance with Section C - General Reporting Requirements, of this permit, The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34)~~. A quarterly summery report to document compliance with Condition D.4.3 shall be submitted to IDEM accordance with Section C-Sulfur Dioxide SO_2 Reporting Requirements (Entire Source).

Explanation: Reporting for SO_2 compliance should be consistent with the rest of the facility and has been changed here to reflect facility wide SO_2 reporting as such.

Response to Comment 132

D.4.5 Reporting Requirements

To clarify that the report to be submitted is in accordance with the Sulfur fuel sampling and analysis reporting requirements in Section C of this permit, the permit is revised as follows:

~~A summary report of the hours of down time of the Coke Oven Gas Desulfurization Plant shall be submitted within thirty (30) days after the end of the calendar year in accordance with Section C - General Reporting Requirements, of this permit, The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~ **A quarterly summery report to document compliance with Condition D.4.2 shall be submitted to IDEM accordance with Section C-Sulfur Dioxide SO_2 Reporting Requirements (Entire Source).** The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Comment 133

Section D.5 Facility Description
USS requests the following corrections:

(f) *One (1) Boiler, No. 8, identified as CSS80162, constructed in 1981, with a maximum heat input capacity of 249 ~~250~~ MMBtu per hour, exhausting to stack CS6066. This boiler is*

equipped to combust natural gas and coke oven gas.

Explanation: The boiler's heat input capacity is corrected.

Response to Comment 133

Condition A.3 and Section D.5 description box is revised as follows:

(f) One (1) Boiler, No. 8, identified as CSS80162, constructed in 1981, with a maximum heat input capacity of **249** ~~250~~ MMBtu per hour, exhausting to stack CS6066. This boiler is equipped to combust natural gas and coke oven gas.

Comment 134

Section D.5.1
USS requests the following corrections:

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the Boilers 9 and 10, except as otherwise specified in 40 CFR 63, Subpart DDDDD, ~~affected source as designated by 40 CFR 63.7506(b)~~. The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD by the applicable compliance dates.

*(b) ~~Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~ The permit shield applies to Condition D.5.15, for Boiler Nos. 1-8**,** National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.*

Explanation: Item (a) was revised because NESHAP only applies to the new boilers. Only initial notification applies to the existing boilers. Part (b) was revised because the applicable requirements for all boilers are outlined in this permit. The permit shield applies.

Response to Comment 134

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD for the new Boilers 9 and 10 and the temporary boiler and existing boilers 1 through 8, because the source has until initial startup of new boilers and September 13, 2007 for existing boilers to comply with the requirements of this NESHAP. See Response to Comment 135. The permit is revised as follows:

D.5.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1][40 CFR 63, Subpart A] [**Table 10 to** 40 CFR 63, Subpart DDDDD]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, **Number 2 Coke Plant Boiler House new Boilers Nos. 9, 10 and temporary rental boiler** as designated by 40 CFR 63.7506**(a)**

~~(b)~~. The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.5.15, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart~~

(b) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, Number 2 Coke Plant Boiler House existing Boilers Nos. 1 through 8 as designated by 40 CFR 63.7506(b). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.

Comment 135

Section D.5.2
USS requests the following corrections:

(a) Boiler No. 9 and 10 are ~~The affected source is~~ subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD). Pursuant to this rule, the Permittee shall comply with 40 CFR 63, Subpart DDDDD by November 12, 2004 or upon startup of Boiler Nos. 9 and 10 , ~~on and after three years after September 13, 2004~~.

(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit for Boiler Nos. 9 and 10, , the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition for Boiler Nos. 9 and 10..

~~(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers Nos. 1, 2, 3, 4, 5, 6, 7, and 8.~~

(c) ~~(d)~~ Pursuant to 40 CFR 63, Subpart DDDDD, ~~the temporary rental boiler,~~ boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to 3 ~~7~~ percent oxygen based on 30-day rolling average.

(d) ~~(e)~~ The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 is applicable to the temporary boiler, and Boilers Nos. 9 and 10 ~~affected sources.~~

(e) ~~(f)~~ Pursuant to 40 CFR Part 63.7505(e), the Permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) for the temporary rental boiler, boiler No. 9, and boiler No. 10 according to the provisions of 40 CFR Part 63.6(e)(3).

(f) Pursuant to 40 CFR 63.7506(b), Boilers Nos. 1-8 at this facility are only subject to the

initial notification requirements in 40 CFR 63.9(b)(2) and are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD.

Explanation: Part (a) was revised and Item (f) was inserted because NESHAP only applies to the new boilers. Only initial notification applies to the existing boilers. Part (c) was revised because NESHAP does not apply to temporary boilers, pursuant to 40 CFR 63.7491(n). The percent oxygen was corrected for consistency with language for new, large, gaseous fuel boilers per Table 1, item 7 of the rule.

Response to Comment 135

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD for, the new Boilers 9 and 10 and the temporary boiler and the existing boilers 1 through 8 because the source has until September 2007 to comply with this NESHAP. To address the application of the NESHAP to the new and existing boilers in the Coke Plant Boiler House, the MACT language is revised as shown below:

The NESHAP 40 CFR 63 Subpart DDDDD applies to new boilers and temporary boilers used for same or similar functions consecutively for more than 180 days. Pursuant to 40 CFR 63.7575 Applicable Definitions for this subpart temporary boiler means any gaseous or liquid fueled boiler that is designed to and is capable of, being carried or moved from one location to another. A temporary boiler that remains at a location for more than 180 consecutive days is no longer considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period.

D.5.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

(a) ~~The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD). Pursuant to this rule, the Permittee shall comply with 40 CFR 63, Subpart DDDDD on and after three years after September 13, 2004.~~

The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD) as of September 14, 2004. A copy of this rule is available on the US EPA Air Toxics Website at http://www.epa.gov/ttn/atw/hcl/hclpg.html. Pursuant to 40 CFR 63.7495(a) and (b), the Permittee must comply with these requirements on November 12, 2004 or startup of new boilers and September 13, 2007 for existing boilers.

(b) ~~Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~

The following new emissions units comprise the affected source identified as new large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers which is subject to 40 CFR 63, Subpart DDDDD:

(1) Boiler No. 9 emissions from stack CS6067
(2) Boiler No. 10 emissions from stack CS6068
(3) Temporary Boiler emissions from stack CS6066

(c) ~~The following emissions units comprise the affected source for the large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers Nos. 1, 2, 3, 4, 5, 6, 7, and 8.~~

The following existing emissions units comprise the affected source identified as existing large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers which are subject to the initial notification of 40 CFR 63, Subpart DDDDD:

(1)	**Boiler No. 1 and 2**	**emissions from stack CS6061**
(2)	**Boiler No. 3**	**emissions from stack CS6062**
(3)	**Boiler No. 4 and 5**	**emissions from stack CS6063**
(4)	**Boiler No. 6**	**emissions from stack CS6064**
(5)	**Boiler No. 7**	**emissions from stack CS6065**
(6)	**Boiler No. 8**	**emissions from stack CS6066**

(d) Pursuant to 40 CFR 63, Subpart DDDDD, the temporary rental boiler, boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to 3 percent oxygen based on 30-day rolling average.

(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected sources.

(f) Pursuant to 40 CFR Part 63.7505(e), the Permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) for the temporary rental boiler, boiler No. 9, and boiler No. 10 according to the provisions of 40 CFR Part 63.6(e)(3).

(g) Pursuant to 40 CFR 63, Subpart DDDDD, the temporary rental boiler, boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to 3 percent oxygen based on 30-day rolling average.

(h) Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: No. 2 Coke Plant Boiler House Boilers Nos. 1-8 are only subject to the initial notification requirements in 40 CFR 63.9(b)(2).

(i) Since the applicable requirements associated with the compliance options for the affected source are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition except as otherwise provided in this condition. The permit shield applies to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements.

Comment 136

Section D.5.3, item (a)
USS requests the following corrections:

(a) The PM_{10} emissions from the Coke Plant Boiler House Boilers Nos.1 and 2 stacks CS6060 and CS6061 shall not exceed 0.003 pounds per MMBtu heat input <u>each</u> and a total of 0.75 pound per hour.

Section D.5.3, item (c)
USS requests the following corrections:

> *(c) The PM_{10} emissions from the Coke Plant Boiler House Boilers No.4 and No.5 stack CS6063 shall not exceed 0.012 pound per MMBtu of heat input each and 3.9 pounds per hour each.*

Response to Comment 136

Section D.5.3, Item (a)

To clarify the PM_{10} emission limitations for Boilers Nos. 1 and 2, the permit is revised as follows:

> (a) The PM_{10} emissions from the Coke Plant Boiler House Boilers Nos.1 and 2 stacks CS6060 and CS6061 shall not exceed 0.003 pounds per MMBtu heat input **each** and a total of 0.75 pound per hour.

Section D.5.3, item (c)

The limits are based on the modeling completed for the 326 IAC 6.8-2-38 rule revision. The 0.012 pound per MMBtu of heat input is for each boiler and the 3.9 pounds per hour is the total for both boilers. The rule has a typo and the 3.9 lb/hr should have total in parentheses written after it. Therefore the permit is revised as follows:

> (c) The PM_{10} emissions from the Coke Plant Boiler House Boilers No.4 and No.5 stack CS6063 shall not exceed 0.012 pound per MMBtu of heat input **each** and **a total of** 3.9 pounds per hour.

Comment 137

Section D.5.4
USS requests the following corrections:

D.5.4 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4-1.1(c)(22)(D)] [326 IAC 7-4.1-20] ~~7-4-1.1(a)]~~

Pursuant to 326 IAC 7-4-1-20 ~~7-4-1.1(c)(22)~~, the SO_2 emissions from ~~the Boilers~~: Boiler No. 1 CSS10155, Boiler No. 2 CSS20156, Boiler No. 3 Stack CS6062, Boiler No. 4 and 5 Stack CS6063,, Boiler No. 6 Stack CS6064, Boiler No. 7 Stack CS6065 and Boiler No. 8 Stack CS6066 shall comply with the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(C), (a)(2)(B) and (a)(2)(C), when the coke oven gas desulfurization facility is not operating during the following periods,

		Limit (lbs/MMBtu)	Limit (lbs/hr)
Jan -Dec	Boiler No. 8	1.27	316.2
Jan -Dec	Boiler No.9	1.27	298.45
Jan -Dec	Boiler No.10	1.27	298.45
Jan – Apr	Boiler Nos 4 & 5.	0.444	150 total
May- Oct	Boiler Nos 4 & 5.	0.385	130 total
Nov-Dec	Boiler Nos 4 & 5.	0.0006	0.203 total
Jan – Apr	Boiler No.6	1.27	214.6

May- Oct	*Boiler No.6*	*1.27*	*214.6*
Nov-Dec	*Boiler No.6*	*1.27*	*200.0*

(b) Pursuant to 326 IAC 7-4.1-20(b)(3), when the coke oven gas desulfurization facility is operating.

	Limit (lbs/MMBtu)	*Limit lbs/hr)*
Boiler No. 3	*0.260*	*40.6*
Boiler Nos 4 & 5	*0.260*	*87.9*
Boiler No. 6	*0.260*	*44.0*
Boiler No. 7	*0.260*	*42.1*
Boiler No. 8	*0.260*	*64.7*
Boiler No. 9	*0.260*	*61.10*
Boiler No. 10	*0.260*	*61.10*

~~*(a) Boiler Nos. 1 and 2, CSS10155 and CSS20156 shall burn natural gas only.*~~

~~*(b) The SO_2 emissions from each Stack CS6062, CS6063 and CS6064 serving Boiler Nos. 3, 4, 5 and 6 shall not exceed 1.20 pounds of SO_2 per MMBtu of heat input.*~~

~~*(c) The SO_2 emissions from each Stack CS6065 and CS6066 serving Boiler Nos. 7 and 8 shall not exceed 1.07 pounds of SO_2 per MMBtu of heat input.*~~

~~*(d) Only four (4) of No. 2 Coke Plant Boiler House Boilers may operate using coal or coke oven gas at the same time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.*~~

~~*(e) Pursuant to 326 IAC 7-4-1.1(a), boilers No. 9 and No. 10 shall combust natural gas only.*~~

Explanation: Revisions were made in accordance with the updated SIP.

Response to Comment 137

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.5.4 Sulfur Dioxide (SO_2) Limitations [~~326 IAC 7-4-1.1(c)(22)(D)~~] [~~326 IAC 7-4-1.1(a)~~] [**326 IAC 7-4.1-20**]

~~Pursuant to 326 IAC 7-4-1.1(c)(22), the SO_2 emissions from the Boilers: Boiler No. 1 CSS10155, Boiler No. 2 CSS20156, Boiler No. 3 Stack CS6062, Boiler No. 4 and 5 Stack CS6063,, Boiler No. 6 Stack CS6064, Boiler No. 7 Stack CS6065 and Boiler No. 8 Stack CS6066 shall comply with the following:~~

~~(a) Boiler Nos. 1 and 2, CSS10155 and CSS20156 shall burn natural gas only.~~

~~(b) The SO_2 emissions from each Stack CS6062, CS6063 and CS6064 serving Boiler Nos. 3, 4, 5 and 6 shall not exceed 1.20 pounds of SO_2 per MMBtu of heat input.~~

~~(c) The SO_2 emissions from each Stack CS6065 and CS6066 serving Boiler Nos. 7 and 8~~

~~shall not exceed 1.07 pounds of SO_2 per MMBtu of heat input.~~

~~(d) Only four (4) of No. 2 Coke Plant Boiler House Boilers may operate using coal or coke oven gas at the same time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.~~

~~(e) Pursuant to 326 IAC 7-4-1.1(a), boilers No. 9 and No. 10 shall combust natural gas only.~~

Pursuant to 326 IAC 7-4-1-20, the SO_2 emissions from the Boilers: Boiler No. 1 CSS10155, Boiler No. 2 CSS20156, Boiler No. 3 Stack CS6062, Boiler No. 4 and 5 Stack CS6063, Boiler No. 6 Stack CS6064, Boiler No. 7 Stack CS6065 and Boiler No. 8 Stack CS6066 shall comply with the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(C), (a)(2)(B) and (a)(2)(C), when the coke oven gas desulfurization facility is not operating during the following periods,

Months	Boilers	Emission Limit (lbs/MMBtu)	Emission Limit (lbs/hr)
Jan - Dec	Boiler No. 8	1.27	316.2
Jan - Dec	Boiler No.9	1.27	298.45
Jan - Dec	Boiler No.10	1.27	298.45
Jan - Apr	Boiler Nos. 4 & 5.	0.444	150.0 total
May - Oct	Boiler Nos. 4 & 5.	0.385	130.0 total
Nov - Dec	Boiler Nos. 4 & 5.	0.000	0.0 total
Jan - Apr	Boiler No.6	1.27	214.6
May - Oct	Boiler No.6	1.27	214.6
Nov - Dec	Boiler No.6	1.18	200.0

(b) Pursuant to 326 IAC 7-4.1-20(b)(3), when the coke oven gas desulfurization facility is operating.

Boiler	Emission Limit Lbs/MMBtu	Emission Limit Lbs/hr
Boiler No. 3	0.260	40.6
Boilers Nos. 4 and 5	0.260	87.9 total
Boiler No. 6	0.260	44.0
Boiler No. 7	0.260	42.1
Boiler No. 8	0.260	64.7
Boiler No. 9	0.260	61.10
Boiler No. 10	0.260	61.10

Comment 138

Section D.5.7, Item (b)
USS requests the following corrections:

~~(b) Since boilers No. 9 and No. 10 shall use natural gas only pursuant to 326 IAC 7-4-1.1 (Lake County SO_2 Emission Limitations) and Condition D.5.6(e), the emission limitations~~

~~and the compliance requirements for coke oven gas combustion at boilers No. 9 and No. 10 are not included in this permit.~~

Explanation: A permit modification was submitted in December 2004.

Response to Comment 138

A variance of SO_2 SIP rule 326 IAC 7-4.1-1 for Boilers Nos. 9 and 10 is no longer necessary, since the EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. Condition D.5.7(b) is deleted from this permit, since Condition D.5.4 (a) and (b) include limitations from the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20 for Boilers Nos. 9 and 10 to combust coke oven gas. Therefore the permit is revised as follows:

~~(b) Since boilers No. 9 and No. 10 shall use natural gas only pursuant to 326 IAC 7-4-1.1 (Lake County SO_2 Emission Limitations) and Condition D.5.6(c), the emission limitations and the compliance requirements for coke oven gas combustion at boilers No. 9 and No. 10 are not included in this permit.~~

Comment 139

Section D.5.9
USS requests the following corrections

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the emissions control devices at this facility ~~these facilities and any associated control devices~~.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 139

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner,

any person operating a facility shall comply with the requirements of subsection (a) of this section."

Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the boilers themselves because lack of proper maintenance on the boilers can result in boiler improper burner air settings which can result in increased emissions. Therefore the permit is not revised as a result of this comment.

IDEM has determined that the requirements for a PMP are not necessary for the lime storage silo and has revised Condition D.5.9 as follows:

D.5.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]
A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities~~ **the boilers** and any associated control devices.

Comment 140

Section D.5.10
USS requests the following corrections

~~Pursuant to Significant Source Modification 089-19678-0012, issued October 29, 2004~~ and in order to demonstrate compliance with Conditions D.5.5, D.5.8~~(a)~~, and D.5.2(c) ~~(d)~~, the Permittee shall perform NOx and CO testing for boilers No. 9, No. 10, ~~and the temporary rental boiler~~ within 60 days after achieving the maximum production, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing. ~~Pursuant to 40 CFR 60.46b(e), the performance test requirements may be satisfied by using 30-day average emission rate data from NOx CEMs.~~

Explanation: NESHAP only applies to the Nos. 9 and 10 boilers. NESHAP does not apply to the temporary unit and the facility should not be required to test.

Response to Comment 140

The Addendum to the Technical Support Document to Source Modification 089-19678-00121, issued October 20, 2004, addressed the applicability of the temporary boiler to the NESHAP rule DDDDD. Also, the NESHAP 40 CFR 63 Subpart DDDDD applies to new boilers and temporary boilers used for same or similar functions consecutively for more than 180 days. Pursuant to 40 CFR 63.7575 temporary boiler means any gaseous or liquid fueled boiler that is designed to and is capable of, being carried or moved from one location to another. Because the temporary boiler has remained at this location for more than 180 consecutive days it would no longer be considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period for the length of time a temporary boiler is on site and if the 40 CFR 63 Subpart DDDDD requirements apply.

The newly constructed Boilers Nos. 9 and 10 and the temporary boiler are required by 40 CFR 60.46b(c) New Source Performance Standards for Industrial, Commercial-Institutional Steam Generating units constructed after June 19, 1984, to perform initial CO and NOx testing to demonstrate compliance with the emission limits as specified in Conditions D.5.5, D.5.8 and D.5.2(d). Therefore, the permit is not revised as a result of this comment.

It is noted that the reference to Condition D.5.8 should not include Item number (a), because there is no item (a) in the condition. Therefore the permit is revised to address this issue as follows:

Pursuant to Significant Source Modification 089-19678-0012, issued October 29, 2004 and in order to demonstrate compliance with Conditions D.5.5, D.5.8~~(a)~~, and D.5.2(d), the Permittee shall perform NOx and CO testing for boilers No. 9, No. 10, and the temporary rental boiler within 60 days after achieving the maximum production, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing. Pursuant to 40 CFR 60.46b(e), the performance test requirements may be satisfied by using 30-day average emission rate data from NOx CEMs.

Comment 141

Section D.5.11
USS requests the following corrections

D.5.11 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis [326 IAC 7-4.1-2 ~~7-4-1.1(d)]~~

Explanation: The regulatory citation was updated in accordance with the revised SIP.

Response to Comment 141

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

Also, see IDEM Response to EPA Comment 12 for revised Condition name.

D.5.11 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis ~~[326 IAC 7-4-1.1(d)]~~ **[326 IAC 7-4.1-2]**

Comment 142

Section D.5.13
USS requests the following corrections

~~*(a) Pursuant to 40 CFR 60.48(b) and in order to demonstrate compliance with Condition D.5.8(a), the Permittee shall comply with the following:*~~

~~*(1) Install, calibrate, maintain, and operate a continuous monitoring system for boilers No. 9, No. 10, and the temporary rental boiler for measuring NOx emissions discharged to the atmosphere. The continuous monitoring system shall meet the performance specifications of 326 IAC 3-5-2, and 40 CFR 60.48(b), and 40 CFR 60.13(h). 326 IAC 3-5 is not federally enforceable; or*~~

~~*(2) Pursuant to 40 CFR 60.48b(g)(2), the Permittee shall monitor the operating conditions for the No. 9 and No.10 boilers and temporary rental boiler and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c).*~~

~~*(b) If the Permittee chooses item D.5.13(a)(1) above, then pursuant 40 CFR 60.48b(f), when nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other*~~

~~*approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in the No. 9 and No. 10 boilers and temporary rental boiler in at least 22 of 30 successive operating days.*~~

(c) In order to demonstrate compliance with Condition D.5.2(d) and pursuant to 40 CFR 63.7525(a), the Permittee shall install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide for the temporary rental boiler, boiler No. 9, and boiler No. 10. The continuous monitoring system shall meet the performance specification of 326 IAC 3-5-2 and 40 CFR 63.7525(a)(1) through (6). The requirements of 326 IAC 3-5 is not federally enforceable.

Explanation: Items (a) and (b) were deleted because pursuant to the permit modification and 40 CFR 60.48b(i), the installation of CEMS is not required. Item (c) was revised because the NESHAP only applies to the Nos. 9 and 10 boilers.

Response to Comment 142

Pursuant to the Significant Source Modification SSM 089-19678-00121, issued October 29, 2004, Condition D.1.4(b) as part of the Standards and Limitations for Boilers Nos. 9 and 10 and the temporary boiler NOx emissions, the Permittee shall comply with one of the following NOx monitoring requirements for the Boilers Nos. 9 and 10 and the temporary boiler when burning natural gas. Install, calibrate, maintain and operate a continuous emissions monitoring system or monitor the operating conditions of the Boilers Nos. 9 and 10 and not the temporary boiler and predict the NOx emission rates as specified in a plan submitted to 40 CFR 60.49b(c). The Permittee is monitoring the NOx emissions with a continuous emissions monitoring system. The permit is revised as shown below.

If 40 CFR 60.48b(i) applies only to the Boilers Nos. 9 and 10 and not the temporary boiler, the Permittee may request a revision of the Part 70 Permit through the modification process, 326 IAC 2-7-12 and 326 IAC 2-7-10.5**.** ~~, since the Part 70 Permit does not address, NSR, PSD, Emissions Offset, BACT and MACT determinations.~~

D.5.13 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12] [40 CFR 60, Subpart Db] [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart DDDDD]

~~(a) Pursuant to 40 CFR 60.48(b) and in order to demonstrate compliance with Condition D.5.8(a), the Permittee shall comply with the following:~~

~~(1) Install, calibrate, maintain, and operate a continuous monitoring system for boilers No. 9, No. 10, and the temporary rental boiler for measuring NOx emissions discharged to the atmosphere. The continuous monitoring system shall meet the performance specifications of 326 IAC 3-5-2, and 40 CFR 60.48(b), and 40 CFR 60.13(h). 326 IAC 3-5 is not federally enforceable; or~~

~~(2) Pursuant to 40 CFR 60.48b(g)(2), the Permittee shall monitor the operating conditions for the No. 9 and No.10 boilers and temporary rental boiler and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c).~~

~~(b) If the Permittee chooses item D.5.13(a)(1) above, then pursuant 40 CFR 60.48b(f), when nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the~~

~~operating hours in the No. 9 and No. 10 boilers and temporary rental boiler in at least 22 of 30 successive operating days.~~

(a) **In order to demonstrate compliance with condition D.5.8, the Permittee shall install, calibrate, maintain and operate a continuous monitoring system for Boilers No. 9 No. 10 and the temporary rental boiler for measuring NOx emissions discharged to the atmosphere. The continuous monitoring system shall meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 60.48b, and 40 CFR 60.13(h). 326 IAC 3-5 is not federally enforceable.**

~~(c)~~ **(b)** In order to demonstrate compliance with Condition D.5.2(d) and pursuant to 40 CFR 63.7525(a), the Permittee shall install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide for the temporary rental boiler, boiler No. 9, and boiler No. 10. The continuous monitoring system shall meet the performance specification of 326 IAC 3-5-2 and 40 CFR 63.7525(a)(1) through (6). The requirements of 326 IAC 3-5 is not federally enforceable.

Comment 143
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Section D.5.14, Item (h)
USS requests the following corrections

(h) *To document compliance with Conditions D.5.9, the Permittee shall maintain records of the ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.*

Response to Comment 143

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

D.5.14 Record Keeping Requirements

(a) To document compliance with Condition D.5.5(b), D.5.5(c) and D.5.8, the Permittee shall maintain records of the NOx emissions from boilers No. 9, No. 10, and the temporary rental boiler in accordance with 40 CFR 60.49b.

(b) To document compliance with Condition D.5.5(d), the Permittee shall maintain monthly records of the following:

(1) total natural gas usage for boilers No. 1 through No. 8;

(2) natural gas usage for the temporary rental boiler;

(3) total natural gas usage for boilers No. 9 and No. 10; and

(4) calculated NOx emissions using the equation listed in Condition D.5.5(d).

(c) To document compliance with Condition D.5.6, the Permittee shall maintain monthly records of the total natural gas usage for boilers No. 1 through No. 10 and the temporary rental boiler.

(d) To document compliance with Condition D.5.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

(e) To document compliance with Conditions D.5.2(d), the Permittee shall maintain records of the CO CEM data for boilers No. 9, No. 10, and the temporary rental boiler in accordance with 40 CFR 63.7555(b).

(f) Pursuant to 40 CFR 63.7555(a)(1), the Permittee shall keep records of a copy of each notification and report to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report.

(g) Pursuant to 40 CFR 63.7555(a)(2), the Permittee shall keep records related to startup, shutdown and malfunction.

(h) ~~To document compliance with Conditions D.5.9, the Permittee shall maintain records of the additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(i)~~ All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 144

Section D.5.15, Item (a)(1)
USS requests the following corrections

(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) for boilers Nos. 1 through 8 not later than March 12, 2005 ~~2004~~, as required by 40 CFR 63.7506 ~~7545(b).~~

Response to Comment 144

The initial notification submittal date for existing boilers was March 12, 2005. US Steel – Gary Works submitted the initial notification for Boilers 1 through 8 to IDEM on March 9, 2005. Therefore, the permit is revised as follows:

D.5.15 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]

(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for the large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:

~~(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) for boilers Nos. 1 through 8 not later than March 12, 2005, as required by 40 CFR 63.7545(b).~~

(1) Pursuant to 40 CFR 63.7545(c), the Permittee shall submit an Initial Notification no later than 120 days after the initial startup of the rental boiler, boiler No. 9 and boiler No. 10.

(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).

(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).

(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).

(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable

(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.

(b) The notifications required by paragraph (a) shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Comment 145

Section D.5.16, Item (b)
USS requests the following corrections

~~*(b) The natural gas boiler certification for boilers No. 3 through No. 10 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).*~~

Explanation: The purpose of this certification report is unclear. Tracking and certified quarterly reporting of natural gas and other fuel usages is already outlined in the permit. This additional reporting is redundant and lacks purpose.

Response to Comment 145

The duplicate language is deleted, since it the same as in condition D.5.17. The permit is revised as shown below.

Natural Gas certifications are required in lieu of visible emissions. If the source uses multiple fuels that

have potential to emit particulate, VE notations would be required. However if particulate matter emissions are considered low such as when burning natural gas, VE notations can be waived and replaced with this certification. Therefore, the permit is not revised as a result of this comment.

D.5.16 Reporting Requirements

(a) A quarterly summary report to document compliance with condition D.5.4 shall be submitted to IDEM, in accordance with Section C – Sulfur Dioxide Reporting Requirements (Entire Source). The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

~~(b) The natural gas boiler certification for boilers No. 3 through No. 10 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(c)~~ **(b)** A quarterly summary of the information to document compliance with Conditions D.5.5(d) and D.5.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

~~(d)~~ **(c)** The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for the temporary rental boiler, boiler No. 9, and boiler No. 10.

Comment 146

Section D.5.16, Item (d)
USS requests the following corrections

(d) The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for ~~the temporary rental boiler~~, boiler No. 9, and boiler No. 10.

Section D.5.16, Item (e)
USS requests the following corrections

~~*(e) The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for the temporary rental boiler, boiler No. 9, and boiler No. 10.*~~

Explanation: This condition is a duplicate of D.5.16(d). NESHAP does not apply to temporary boiler.

Response to Comment 146

Pursuant to the Source Modification 089-19678-00121, issued October 29, 2004, the Boilers Nos. 9 and 10 and the temporary boiler are subject to the NESHAP 40 CFR 63 Subpart DDDDD. The explanation is in the Source Modification 089-19678-00121Technical Support Document. Refer to Response to Comment 140. Therefore, the permit is not revised as a result of this comment.

The duplicate item is deleted and the permit is revised as follows:

~~*(e) The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for the temporary rental boiler, boiler No. 9, and boiler No. 10.*~~

Comment 147

Section D.5.17
USS requests the following corrections

~~*A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent for the Number 2 Coke Plant Boiler House Boilers Nos. 3, through 10 and the rental natural gas fired boilers. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).*~~

Explanation: The purpose of this certification report is unclear. Tracking and certified quarterly reporting of natural gas and other fuel usages is already outlined in the permit. This additional reporting is redundant and lacks purpose.

Response to Comment 147

Natural Gas certifications are required in lieu of visible emissions. If the source uses multiple fuels that have potential to emit particulate, VE notations would be required. However if particulate matter emissions are considered low such as when burning natural gas, VE notations can be waived and replaced with this certification. Therefore, the permit is not revised as a result of this comment.

Comment 148

Section D.6, Facility Descriptions

(a) Three (3) Sinter Strands ~~Windbox units~~, constructed in ~~1979~~ 1958 , identified as ISS10379, ISS20380 and ISS30381, each with a 50 MMBtu per hour ~~low NOx/flue gas recirculating~~ reheat burners ~~system~~ identified as ISB001, ISB002 and ISB003 and a maximum capacity of 225 tons of sinter per hour each, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, ~~replaced~~ installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, ~~and VOC CEMS~~, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS. .

(b) One (1) Cold Screen Station, identified as ISR00389, constructed in ~~1979~~ 1958, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.

(d) Three (3) Sinter Coolers, identified as ISC10385, ISC20386, and ISC30387, constructed in ~~1979~~ 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203, IS6204, and IS6205 respectively.

(e) Three (3) Sinter Strand Discharge End Areas, identified as ISS10379, ISS20380 and ISS0381, constructed in ~~1979~~ 1958, using three (3) baghouses as control devices, designated as IS3205, IS3206, and IS3207, exhausting to stacks IS6200, IS6201, and IS6202 respectively.

(f) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, including bins, feeders and conveyors, with a maximum capacity of 1,000 tons per hour, using a Baghouse IS3196 as a control device and exhausting to stack IS6197.

(g) Storage and Blending Piles, identified as ISBP0376, ~~exhausting~~ with fugitive emissions.

Explanation: Corrections are to the description of the facility are provided here. In Item (g), the term "exhausting" implies a mechanical system is used for transporting fugitive emissions.

Response to Comment 148

Condition A.3 and Section D.6 description box are revised as follows:

(a) Three (3) Sinter Strands ~~Windbox units~~, constructed in ~~1979~~ **1958** , identified as ISS10379, ISS20380 and ISS30381, each with a 50 MMBtu per hour ~~low NOx/flue gas recirculating~~ **reheat** burner**s** ~~system~~ identified as ISB001, ISB002 and ISB003 and a maximum capacity of 225 tons of sinter per hour each, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, ~~replaced~~ **installed** in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, ~~and VOC CEMS~~, exhausting to Windbox stacks IS6198 and IS6199 **which are equipped with VOC CEMS.**

(b) One (1) Cold Screen Station, identified as ISR00389, constructed in ~~1979~~ **1958**, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.

(d) Three (3) Sinter Coolers, identified as ISC10385, ISC20386, and ISC30387, constructed in ~~1979~~ **1958**, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203, IS6204, and IS6205 respectively.

(e) Three (3) Sinter Strand Discharge End Areas, identified as ISS10379, ISS20380 and ISS0381, constructed in ~~1979~~ **1958**, using three (3) baghouses as control devices, designated as IS3205, IS3206, and IS3207, exhausting to stacks IS6200, IS6201, and IS6202 respectively.

(f) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, **including bins, feeders and conveyors,** with a maximum capacity of 1,000 tons per hour, using a Baghouse IS3196 as a control device and exhausting to stack IS6197.

(g) Storage and Blending Piles, identified as ISBP0376, ~~exhausting~~ **with** fugitive emissions.

Comment 149

Section D.6.1, Item (a)
USS requests the following corrections

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source, No. 3 Sinter Plant, except when otherwise specified by Table 4 in 40 CFR 63, Subpart FFFFF. The Permittee shall comply with these general provision requirements on and after May ~~20, 2003~~ 22, 2006.

Explanation: The effective date for existing sources is May 22, 2006. The date listed was for new sources.

Response to Comment 149

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP language from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable requirements associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM Change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

D.6.1 General Provisions Relating to-National Emission Standards for Hazardous Air Pollutants (HAPs): [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to [40 CFR 63, Subpart FFFFF]

~~(a)~~ The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to **the affected sources,** No. 3 Sinter Plant **Windbox exhaust, discharge end and sinter coolers**, except when otherwise specified by Table 4 in 40 CFR 63, Subpart FFFFF.

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to D.6.23, National Emissions Standards for Hazardous Air Pollutants 40 CFR Part 63 Subpart FFFFF - Notification Requirements.~~

Comment 150

Section D.6.2, Item (d)
USS requests the following corrections

(d) The Permittee shall meet each emission limitation in 40 CFR 63.7790 that applies to the Sinter Plant Windbox Gas Cleaning System, Sinter Coolers and Sinter Discharge End Area Baghouses on or after May 22, 2006.

Explanation: The applicability dates must be included to avoid implications that it applies immediately.

Section D.6.2, Item (f)
USS requests the following corrections

(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b) on or after May 22, 2006..

Explanation: The applicability dates must be included to avoid implications that it applies immediately.

Section D.6.2, Item (g)
USS requests the following corrections

(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 3 Sinter Plant and required capture and control equipment on or after May 22, 2006.

Explanation: The applicability dates must be included to avoid implications that it applies immediately.

Section D.6.2, Item (h)
USS requests the following corrections

> *(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 3 Sinter Plant and required capture and control equipment on or after May 22, 2006.*

Explanation: The applicability dates must be included to avoid implications that it applies immediately.

Response to Comment 150

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general emission limitations from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable emission limitations associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM Change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Emission Limitations for Sinter Plants [40 CFR 63, Subpart FFFFF]~~

~~(a) The provisions of 40 CFR 63, Subpart FFFFF (National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing) apply to the affected sources. A copy of this rule is available on the US EPA Toxics Website at http://www.epa.gov/ttn/atw/eparules.html. The Permittee must comply with these requirements on and after May 22, 2006.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph(a) of this condition.~~

~~(c) Terminology used in this section is defined in the CAA, 40 CFR 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

~~(d) The Permittee shall meet each emission limitation in 40 CFR 63.7790 that applies to the Sinter Windbox Gas Cleaning System, Sinter Coolers and Sinter Discharge End Area Baghouses.~~

~~(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 3 Sinter Plant and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b).~~

~~(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 3 Sinter Plant and required capture and control equipment.~~

~~(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 3 Sinter Plant and required capture and control equipment.~~

Comment 151

Section D.6.3
USS requests the following corrections

> *Pursuant to the significant source modification 089-12880-00121, issued July 26, 2001, the natural gas usage shall be less than ~~95.5~~ 99.5 million standard cubic feet (MMCF) or the coke oven gas usage shall be less than 1,637.4 MMSCF in the No. 3 Sinter Plant ~~Sinter Strand~~ Windbox ~~recirculating~~ reheat burners ISB001, ISB002 and ISB003 per 12-consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-3 (Emissions Offset) not applicable.*

Explanation: Correcting source modification language and correcting nomenclature.

Response to Comment 151

Condition D.6.3 is renumbered D.6.2.

The natural gas usage limit in Significant Source Modification 089-12880-00121, issued July 26, 2001 was 95.5 MMCF per 12-consecutive month period, therefore the limit on the quantity of natural gas that may be combusted has not been revised as requested. To clarify the nomenclature for the burners and the units as standard cubic feet the language is revised as follows:

D.6.~~3~~**2** Particulate Emissions Offset [326 IAC 2-3]

> Pursuant to the significant source modification 089-12880-00121, issued July 26, 2001, the natural gas usage shall be less than 95.5 million **standard** cubic feet (MM**S**CF) or the coke oven gas usage shall be less than 1,637.4 MM**S**CF in the No. 3 Sinter Plant ~~Sinter Strand~~ Windbox ~~recirculating~~ **reheat** burners ISB001, ISB002 and ISB003 per 12-consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-3 (Emissions Offset) not applicable.

Comment 152

Section D.6.5
USS requests the following corrections

D.6.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7~~-4-1.1(c)(22)(I)~~ 4.1-20]

Section D.6.5(a)
USS requests the following corrections

> *(a) ~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM~~, Pursuant to 326 IAC 7-4.1-20(a)(1)(H) the SO_2 emissions from each Sinter Plant ~~Strand~~ Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed ~~100.0~~ 200.0 pounds per hour when the coke oven gas desulfurization plant is in operation.*

Explanation: Language in this condition has been changed to reflect the newly revised SO_2 SIP.

Section D.6.5(b) and (c)
USS requests the following corrections

(b) *~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM~~, Pursuant to 326 IAC 7-4.1-20(a)(1)(H) the SO_2 emissions from each Sinter Plant ~~Strand~~ Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed ~~100.0~~ 260.0 pounds per hour when the coke oven gas desulfurization plant is in operation.*

(a) *~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM~~, Pursuant to 326 IAC 7-4.1-20(a)(1)(H), SO2 emissions from each Sinter Plant Strand Windbox gas cleaning systems stack IS6198 and IS6199 shall not exceed ~~130.0~~ 260.0 pounds of SO2 per hour when the coke oven gas desulfurization plant ~~experiences downtime. This limit shall only be applicable when the coke oven gas desulfurization plant is not in operation in accordance with condition D.4.3~~. is not operating.*

~~(c) Pursuant to 326 IAC 7-4-1.1(c)(22), the SO_2 emissions from the three (3) Sinter Strands Windbox units, ISS10379, ISS20380 and ISS30381 shall not exceed 1.0 pounds per ton of sinter produced.~~

Explanation: Language in this condition has been changed to reflect the newly revised SO_2 SIP. The limit of 1.0 pounds per ton for Sinter Strands is redundant and has been removed in the final rule. The SO_2 emission rate is not solely a function of sinter production rate and coke oven gas burning rate.

Response to Comment 152

Condition D.6.5 is renumbered D.6.4.

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. Since, the Agreed Order SO_2 Limitations for the Sinter Plant are included in the Lake County Sulfur Dioxide (SO_2) SIP rule revision and federally enforceable, the Agreed Order SO_2 limits are deleted and the approved requirements are incorporated into this Part 70 permit. Therefore, the permit is revised as follows:

D.6.~~5~~ **4** Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(I)]~~ [**326 IAC 7-4.1-20]**

~~Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM, and amended May 1, 2001 and 326 IAC 7-4-1.1(c)(22), the SO_2 emissions from the Sinter Plant Strand Windbox shall be as follows:~~

~~(a) Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM, the SO_2 emissions from each Sinter Plant Strand Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed 100.0 pounds per hour when the coke oven gas desulfurization plant is in operation.~~

~~(b) Pursuant to the Agreed Order signed March 22, 1996, amended May 1, 2001, SO_2 emissions from each Sinter Plant Strand Windbox gas cleaning systems stack IS6198 and IS6199 shall not exceed 130.0 pounds of SO_2 per hour when the coke oven gas desulfurization plant experiences downtime. This limit shall only be applicable when the coke oven gas desulfurization plant is not in operation in accordance with condition D.4.3.~~

~~(c) Pursuant to 326 IAC 7-4-1.1(c)(22), the SO_2 emissions from the three (3) Sinter Strand Windbox units, ISS10379, ISS20380 and ISS30381 shall not exceed 1.0 pounds per ton~~

~~of sinter produced.~~

Pursuant to 326 IAC 7-4.1-20 the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(G), the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed a total of 260.0 pounds per hour when the coke oven gas desulfurization plant is not in operation.

(b) Pursuant to 326 IAC 7-4.1-20(b)(7), the SO_2 emissions from the Sinter Plant Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed a total of 200.0 pounds per hour when the coke oven gas desulfurization plant is in operation.

Comment 153

Section D.6.6 and Item (c)
USS requests the following corrections

Pursuant to 326 IAC 8-13-3(b) and (c), the No. 3 Sinter Plant ~~sinter~~ windbox gas cleaning system stacks (IS6198 and IS6199) shall not exceed the VOC emission limits as follows:

(c) On any day from May 1 through September 30 when ozone levels in Lake, Porter, or LaPorte Counties are expected to exceed the national ambient air quality standard for ozone (either one (1) hour or eight (8) hour), the sinter plant windbox exhaust VOC emissions (the lower daily limit) shall not exceed 1,679 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate of 6716 tons per day

A high ozone level day shall be predicted ~~by the Permittee~~ in accordance with ~~a high ozone day action plan developed by the Permittee and submitted to the IDEM - OAQ as part of the report required by 326 IAC 8-13-4(b)~~ (g)(4) of this condition.

Explanation: The wording of the condition was confusing and implied that high ozone was predicted by the Permittee.

Response to Comment 153

Condition D.6.6 is renumbered D.6.5.

To clarify the language in the condition and reference the item that states IDEM predicts the high ozone days in conjunction with the Partners in Clean Air of which USS is a member. The permit is revised as follows:

D.6.5 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-13-3]

Pursuant to 326 IAC 8-13-3(b) and (c), the No. 3 Sinter Plant ~~sinter~~ windbox gas cleaning system stacks (IS6198 and IS6199) shall not exceed the **VOC emission** limits as follows:

(c) On any day from May 1 through September 30 when ozone levels in Lake, Porter, or LaPorte Counties are expected to exceed the national ambient air quality standard for ozone (either one (1) hour or eight (8) hour), the sinter plant windbox exhaust VOC emissions (the lower daily limit) shall not exceed 1,679 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate of 6716 tons per day

A high ozone level day shall be predicted ~~by the Permittee~~ in accordance with ~~a high ozone day action plan developed by the Permittee and submitted to the IDEM - OAQ as part of the report required by 326 IAC 8-13-4(b)~~ **item (g)(4) of this condition.**

Comment 154

Section D.6.7
USS requests the following corrections

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and any associated control devices~~ the emissions control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 154

Condition D.6.7 is renumbered D.6.6.

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Therefore the permit is not revised as result of this comment.

Comment 155

Section D.6.8, Item (a)
USS requests the following corrections

> *(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.1.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3. The Permittee shall comply with these requirements on and after May ~~20~~ 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.8, Item (b)
USS requests the following corrections

> (b) *The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No. 3 Sinter Plant in accordance with 40 CFR 63.7825* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.8, Item (c)
USS requests the following corrections

> *(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7826* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.8, Item (d)
USS requests the following corrections

> (*d) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR 63, Subpart FFFFF, in accordance with 40 CFR 63.7832* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.8, Item (e)
USS requests the following corrections

> *(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 3 Sinter Plant and required capture and control equipment in accordance with 40 CFR 63.7833* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.8, Item (f)
USS requests the following corrections

> *(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 3 Sinter*

Plant and required capture and control equipment in accordance with 40 CFR 63.7834 on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Response to Comment 155

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general compliance requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance requirements associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM Change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.8 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for Sinter Plants [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]~~

~~(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.1.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3. The Permittee shall comply with these requirements on and after May 20, 2006.~~

~~(b) The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No. 3 Sinter Plant in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7826.~~

~~(d) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR 63, Subpart FFFFF, in accordance with 40 CFR 63.7832.~~

~~(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 3 Sinter Plant and required capture and control equipment in accordance with 40 CFR 63.7833.~~

~~(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 3 Sinter Plant and required capture and control equipment in accordance with 40 CFR 63.7834.~~

Comment 156

Section D.6.9 Item (a)
USS requests the following corrections

(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7820 on or after May 22, 2006.

Explanation: Clarification of applicable date.

Section D.6.9 Item (b)
USS requests the following corrections

> *(b) The Permittee shall conduct subsequent performance tests that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7821* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.9 Item (c)
USS requests the following corrections

> *(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for the Sinter Strands Windbox units, Sinter Coolers and Sinter Discharge End Areas* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.9 Item (d)
USS requests the following corrections

> *(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the Sinter Strands Windbox units, Sinter Coolers and Sinter Discharge End Areas* on or after *May 22, 2006.*

Explanation: Clarification of applicable date.

Section D.6.9 Item (e)
USS requests the following corrections

> *(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 3 Sinter Plant and required capture and control equipment* on or after *May 22, 2006.*

Explanation: Clarification of applicable date. Also, D.6.10 numbering is off.

Response to Comment 156

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general testing requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable testing requirements associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM Change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing -Testing Requirements [40 CFR 63.7820 through 63.7824]~~

~~(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7820.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 3 Sinter Plant, in accordance with 40 CFR 63.7821.~~

~~(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when~~

~~demonstrating compliance with the emission limits for particulate matter for the Sinter Strands Windbox units, Sinter Coolers and Sinter Discharge End Areas.~~

~~(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the Sinter Strands Windbox units, Sinter Coolers and Sinter Discharge End Areas.~~

~~(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 3 Sinter Plant and required capture and control equipment.~~

Comment 157

Section D.6.11 Item (a)
USS requests the following corrections

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.4, the Permittee shall perform simultaneous sampling and analysis of both non-condensable (front half) and condensable (back half) PM_{10} on Sinter ~~Strand~~ Plant Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every ~~two and one half (2 ½)~~ five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Explanation: The frequency of testing is overburdensome. The amount parametric data monitored and recorded in accordance with the current CCP (and the future MACT) is more sufficient to ensure continuous compliance.

Response to Comment 157

Condition D.6.11(a) is renumbered D.6.7(a), to address the mis-numbering and deletion of the conditions. The Table of Contents has also been adjusted.

IDEM has determined that the stack test frequency can be changed from every two and one half years to every five years for the Windbox Gas Cleaning Systems. To clarify which testing method is required to measure particulate mass emissions from the Sinter Plant gas cleaning system stacks the exact rule reference has been added to the condition. Note: 326 IAC 6 Particulate Limitation Rule citations are revised. See IDEM review Change 19. The permit is revised as follows:

D.6.~~11~~ **7**Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.~~4~~ **3**, the Permittee shall perform simultaneous sampling and analysis of both non-condensable (front half) and condensable (back half) PM_{10} on Sinter ~~Strand~~ **Plant** Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(5)** or ~~other methods~~ **a testing method** approved by the Commissioner. This test shall be repeated at least once every **five (5)** ~~two and one half (2 ½)~~ years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 158

Section D.6.11 Item (b)
USS requests the following corrections

> *(b) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.4, the Permittee shall perform PM_{10} testing <u>for noncondensibles (front half)</u> on the Discharge Ends Area Baghouse Stacks IS6200, IS6201 and IS6202, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*

Explanation: Condensible PM at this location is believed to be negligible and it has been modeled as such for the latest revision of the Lake County PM_{10} rule and this is consistent with MACT (40 CFR 63.7822) which dictates method 5 (front half only).

Response to Comment 158

The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4. Condition D.6.11(b) is renumbered D.6.7(b) and revised to clarify which testing method and frequency are required to measure PM_{10} emissions from the Discharge Ends Area Baghouse Stacks. Note: 326 IAC 6 Particulate Limitation Rule citations are revised. See IDEM review Change 19. The permit is revised as follows:

> (b) Within thirty (30) months after issuance of this permit or **two and one half (2 ½)** ~~five (5)~~ years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.~~4~~ **3**, the Permittee shall perform PM_{10} testing on the Discharge Ends Area Baghouse Stacks IS6200, IS6201 and IS6202, using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 159

Section D.6.11 Item (c)
USS requests the following corrections

> *(c) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.4, the Permittee shall perform PM_{10} testing <u>for noncondensibles (front half)</u> of the three (3) Sinter Coolers Stacks IS6203, IS6204 and IS6205, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every ~~two and one half (2 ½)~~ <u>five (5)</u> years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*

Explanation: The frequency of testing is overburdensome. The amount parametric data monitored and recorded in accordance with the current CCP (and the future MACT) is more sufficient to ensure continuous compliance.

Response to Comment 159

Condition D.6.11(c) is renumbered D.6.7(c), and revised to clarify which testing method is required to measure PM_{10} emissions from the Sinter Cooler Stacks. The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4.
Note: 326 IAC 6 Particulate Limitation Rule citations are revised. See IDEM review Change 19.
The permit is revised as follows:

(c) Within thirty (30) months after issuance of this permit or **five (5)** ~~two and one half (2 ½)~~ years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.~~4~~ **3**, the Permittee shall perform PM_{10} testing of the three (3) Sinter Coolers Stacks IS6203, IS6204 and IS6205, using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every two and one half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 160

Section D.6.11 Item (d)
USS requests the following corrections

(d) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.5, the Permittee shall perform SO_2 testing on Sinter ~~Strand~~ Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as approved by the Commissioner. This test shall be repeated at least once every ~~two and one half (2 ½)~~ five (5) years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Explanation: The frequency of testing is over burdensome. The amount parametric data monitored and recorded in accordance with the current CCP (and the future MACT) is more sufficient to ensure continuous compliance.

Response to Comment 160

Condition D.6.11(d) is renumbered D.6.7(d). IDEM has determined that the stack test frequency can be changed from every two and one half years to every five years for the Windbox Gas Cleaning Systems. The permit is revised as follows:

(d) Within thirty (30) months after issuance of this permit or **five (5)** ~~two and one half (2 ½)~~ years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.6.~~5~~ **4**, the Permittee shall perform SO_2 testing on Sinter ~~Strand~~ Windbox Gas Cleaning Systems Stacks IS6198 and IS6199, using methods as approved by the Commissioner. This test shall be repeated at least once

every **five (5)** ~~two and one half (2 ½)~~ years from the date of the last valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 161

Section D.6.12 Item (a) and (e)
USS requests the following corrections

(a) Sinter ~~Strand~~ Plant Windbox Gas Cleaning System each comprised of a Quench Reactor, Dry Venturi Scrubber, and a Baghouse in series, identified as emission units IS3203 and IS3204, shall be in operation at all times when the No. 3 Sinter Plant Sinter Windbox is in operation.

(e) The Blended Material Storage Bins Baghouse, identified as control device IS3196, shall be in operation at all times when material ~~is stored in the No. 3 Sinter Plant Blended Material Storage Bins~~ being transferred in the building.

Explanation: Static storage of materials does not create emissions and there are periods during maintenance of the baghouse when the unit is down while materials are in storage.

Response to Comment 161

Condition D.6.12, is renumbered D.6.8. To clarify the name of equipment and when the baghouse for the blended material storage operates, the permit is revised as follows:

(a)(1) Sinter ~~Strand~~ **Plant** Windbox Gas Cleaning System each comprised of a Quench Reactor, Dry Venturi Scrubber, and a Baghouse in series, identified as emission units IS3203 and IS3204, shall be in operation at all times when the No. 3 Sinter Plant Sinter Windbox is in operation.

~~(e)~~ **(5)** The Blended Material Storage Bins Baghouse, identified as control device IS3196, shall be in operation at all times when material is ~~stored in the No. 3 Sinter Plant Blended Material Storage Bins~~ **being transferred in the building.**

Comment 162

Section D.6.14
USS requests the following corrections

Whenever the VOC continuous emission monitoring system is malfunctioning or down for repairs or adjustments for more than 4 hours the following method shall be used to provide information related to VOC emissions:

Explanation: A time frame should be established for compliance with this condition.

Response to Comment 162

Condition D.6.14 VOC Monitoring Downtime (re-numbered D.6.13) has been revised to establish a time frame for the Permittee to take action when the VOC continuous emission monitoring system is malfunctioning or down for repairs or adjustments. If a VOC emissions limit is exceeded, the Permittee is required to follow the corrective action plan requirement in 326 IAC 8-13-4(b). The requirement to follow the corrective action plan is added to Condition D.6.13. Therefore, the permit is revised as follows:

D.6.~~14~~**13** VOC Monitoring Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

Whenever the VOC continuous emission monitoring system is malfunctioning or down for repairs or adjustments **for more than four (4) hours**, the following method shall be used to provide information related to VOC emissions:

(a) The Permittee shall not include oily scale in the sinter plant burden raw materials, and

(b) Sample and analyze the sinter burden for oil and grease utilizing the methods and calculations in 326 IAC 8-13-5(d).

D.6.~~13~~**12** Continuous Emissions Monitoring (VOC)[326 IAC 8-13-8][326 IAC 3-5]

The Permittee shall operate the continuous emissions monitoring system (CEMS) for the measurement of VOC emissions discharged into the atmosphere from the No. 3 Sinter Plant Sinter Windbox gas cleaning system stacks IS6198 and IS6199, in accordance with 326 IAC 8-13-8, and 326 IAC 3-5.

(a) The continuous emissions monitoring system (CEMS) shall measure VOC emission rate in pounds per hour.

(b) The Permittee shall demonstrate compliance with Condition D.6.6 utilizing data from the VOC CEMS and 326 IAC 8-13-3(b) calculations.

(c) The Permittee shall follow the maintenance, operating procedures, quality assurance procedures and performance specifications for the VOC CEMs in 326 IAC 3-5.

(d) In the event of an exceedance of VOC emissions, the Permittee shall implement the corrective action plan requirements in 326 IAC 8-13-4(b)(5).

Comment 163

Section D.6.14 (a)-(b)
USS requests the following corrections

(a) The Permittee shall not ~~include~~ add any additional oily scale in the sinter plant burden raw materials, ~~and~~ or

(b) Sample and analyze the sinter burden for oil and grease utilizing the methods and calculations in 326 IAC 8-13-5(d).

Explanation: The presence of oily mill scale in the sinter burden is unavoidable. Also, the facility complies with the VOC limitation using a CEMS and is not required to do sampling.

Response to Comment 163

See IDEM's response to comment 162.

Comment 164

Section D.6.15
USS requests the following corrections

~~*D.6.15 Visible Emissions Notations*~~

~~(a) *Visible emission notations of the Sinter Strand Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station Stack IS6207, Sinter Cooler Stacks IS6203, IS6204 and IS6205 and Discharge Ends Area Stacks IS6200, IS6201 and IS6202, shall be performed once per shift during normal daylight operations when the No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning System, Cold Screen Station, Sinter Coolers and Discharge Ends Area are in operation. A trained employee shall record whether emissions are normal or abnormal.*~~

~~(b) *For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.*~~

~~(c) *In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.*~~

~~(d) *A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.*~~

~~(e) *The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*~~

Explanation: VE Notations are over burdensome for this facility. The amount of parametric data monitored and recorded in accordance with the CCP (and with the new MACT) is more than sufficient to ensure continuous compliance with PM.

Response to Comment 164

Condition D.6.15, is renumbered D.6.9.

326 IAC 6.8-8-7(A) requires a Continuous Compliance Plans (CCP) for baghouses to include a description of any visible emissions evaluation program. Item (f) has been added to address this issue.

Upon further review, IDEM has determined that once per day visible emission notations is generally sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the permit is revised as shown below.

Compliance monitoring conditions such as the requirement to perform visible emission notations are necessary to demonstrate continuous compliance with the permit requirements. Visible emission notations are used to indicate compliance with 326 IAC 5-1 and the particulate matter limits pursuant to 326 IAC 6.8-10-3.

D.6.~~15~~ **9** Visible Emissions Notations

(a) Visible emission notations of the Sinter Strand Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station Stack IS6207, Sinter Cooler Stacks IS6203, IS6204 and IS6205 and Discharge Ends Area Stacks IS6200, IS6201 and IS6202, shall be performed once per ~~shift~~ **day** during normal daylight operations when the No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning System, Cold Screen Station, Sinter Coolers

and Discharge Ends Area are in operation. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed**, the Permittee shall take reasonable response steps in accordance with** Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances** shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

Comment 165

Section D.6.16 (a)
USS requests the following corrections

(a) The Permittee shall record the total static pressure drop and liquid reagent flow rate of the dry ventri scrubbers used in conjunction with the No. 3 Sinter Plant ~~Sinter Strand~~ Windbox Gas Cleaning Systems at least ~~once per shift~~ daily in accordance with the Continuous Compliance Plan when the No. 3 Sinter Plant ~~Sinter Strand~~ Windbox units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the range of ~~3.0 to 8.0~~ 3 to 8 inches of water and the flow rate of the scrubber is outside the range of 400 to 600 gallons per minute (gpm) or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure drop or flow rate that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.

Explanation: Correction to the ranges and request for reduction in monitoring frequency to daily. This is consistent with the requirements under the CCP and we feel it is sufficient to monitor compliance.

Response to Comment 165

Condition D.6.16(a) is renumbered D.6.10(a).

Upon further review, IDEM has determined that once per day monitoring of the control device is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.

D.6.~~16~~**10** Parametric Monitoring

(a) The Permittee shall record the ~~total static~~ pressure drop and liquid reagent flow rate of the dry ventri scrubbers used in conjunction with the No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning Systems at least once per ~~shift~~ **day** when the No. 3 Sinter Plant Sinter Strand Windbox units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the range of ~~3.0 to 8.0~~ **3 to 8** inches of water and the flow rate of the scrubber is outside the range of 400 to 600 gallons per minute (gpm) or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** . A pressure drop or flow rate that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

Comment 166

Section D.6.16 (b)
USS requests the following corrections

(b) The Permittee shall record the total static pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Discharge Ends Area at least ~~once per shift~~ daily in accordance with the Continuous Compliance Plan when the No. 3 Sinter Plant Discharge Ends Area is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of ~~3.0 to 8.0~~ 3 to 8 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.

Explanation: Correction to the ranges and request for reduction in monitoring frequency to daily. This is consistent with the requirements under the CCP and we feel it is sufficient to monitor compliance.

Response to Comment 166

Condition D.6.16(b), is renumbered D.6.10(b).

Upon further review, IDEM has determined that once per day monitoring of the control device is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.

(b) The Permittee shall record the ~~total static~~ pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Discharge Ends Area at least once per ~~shift~~ **day** when the No. 3 Sinter Plant Discharge Ends Area is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of ~~3.0 to 8.0~~ **3 to 8** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response~~

~~Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

Comment 167

Section D.6.16
USS requests the following corrections

(c) The Permittee shall record the total static pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Cold Screen Station at least ~~once per shift~~ daily in accordance with the Continuous Compliance Plan when the No. 3 Sinter Plant Cold Screen Station is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of ~~3.0 to 8.0~~ 3 to 8 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.

Explanation: Correction to the ranges and request for reduction in monitoring frequency to daily. This is consistent with the requirements under the CCP and we feel it is sufficient to monitor compliance.

Response to Comment 167

Condition D.6.16(c), is renumbered D.6.10(c).

Upon further review, IDEM has determined that once per day monitoring of the control device is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.

The requirement for Continuous Compliance Plan (CCP) is listed in Section C Entire Source. A reference to this Section C condition is added to the permit to clarify a CCP is required for the particulate control device in this D Section. Therefore, the permit is revised as shown below:

Item (e) see IDEM's Response to Comment 11.

(c) The Permittee shall record the ~~total static~~ pressure drop of the baghouse used in conjunction with the No. 3 Sinter Plant Cold Screen Station at least once per ~~shift~~ **day** when the No. 3 Sinter Plant Cold Screen Station is in operation. When for any one reading, the pressure drop across the baghouse is outside the range of ~~3.0 to 8.0~~ **3 to 8** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

(d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C-Continuous Compliance Plan.

~~(d)~~ **(e)** The instruments used for determining the pressure drop and flow rate shall comply with Section C - ~~Pressure Gauge and Other~~ Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

Comment 168

Section D.6.17
USS requests the following corrections

An inspection shall be performed each calendar quarter ~~of the bags~~ in the Sinter Plant Windbox Gas Cleaning Systems Baghouses IS3203 and IS3204, Cold Screen Station Baghouse IS3209and Sinter Strand Discharge Ends Area Baghouses IS3205, IS3206 and IS3207. Inspections required by this condition shall not be performed in consecutive months. All known defective bags shall be replaced.

Explanation: Quarterly inspections of the baghouse and its systems are performed in accordance with the CCP. Problems with bags are normally indicated through means other than physical bag inspection.

Response to Comment 168

Condition D.6.17 has been deleted.

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections have been removed.

~~D.6.16 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of the bags in the Sinter Plant Windbox Gas Cleaning Systems Baghouses IS3203 and IS3204, Cold Screen Station Baghouse IS3209and Sinter Strand Discharge Ends Area Baghouses IS3205, IS3206 and IS3207. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

Comment 169

Section D.6.18, Item (a)
USS requests the following corrections

(a) For multi-compartment units, the affected compartments will be shut down ~~immediately~~ as soon as practical to ensure safety of equipment and personnel until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If the baghouse ~~operations~~ continues to operate after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Explanation Safety during shutdowns should be considered for this requirement.

Response to Comment 169

Paragraph (a) of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.6.7 requiring the Permittee to notify IDEM if a broken bag is detected if the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

Paragraph (b) of this condition has been removed. IDEM received an email on October 17, 2005 from US Steel-Gary Works stating no single compartment baghouses are in service at the source. Therefore, the permit is revised as follows:

~~D.6.17 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

D.6.~~11~~ **8** Particulate Matter Control

(a) **Except as otherwise provided by statue, rule or this permit** the control devices as listed in (a) through (e) below shall be in operation at all times the associated processes are in operation to control particulate emissions.

~~(a)~~ **(1)** Sinter Windbox Gas Cleaning System each comprised of a Quench Reactor, Dry Venturi Scrubber, and a Baghouse in series, identified as emission units IS3203 and IS3204, shall be in operation at all times when the No. 3 Sinter Plant Sinter Windbox is in operation.

~~(b)~~ **(2)** The Cold Screen Station Baghouse, identified as control device IS3209, shall be in operation at all times when the No. 3 Sinter Plant Cold Screen Station is in operation.

~~(c)~~ **(3)** The S1/S2 Conveyor System Baghouse, identified as control device IS3208, shall be in operation at all times material is conveyed by the No. 3 Sinter Plant S1/S2 conveyor system.

~~(d)~~ **(4)** The Sinter Strand Discharge Ends Area Baghouses, identified as control devices IS3205, IS3206, IS3207, shall be in operation at all times when the associated No. 3 Sinter Plant Sinter Strand Discharge Ends Area and Sinter Coolers are in operation.

~~(e)~~ **(5)** The Blended Material Storage Bins Baghouse, identified as control device IS3196, shall be in operation at all times when material is being transferred in the building.

(b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

Comment 170

Section D.6.19
USS requests the following corrections

An inspection shall be performed each calendar quarter of the Sinter ~~Strand~~ Plant Windbox gas cleaning systems dry venturi scrubbers. Inspections required by this condition shall not be performed in consecutive months.

Explanation: Spelling error and nomenclature corrected.

Response to Comment 170

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be

inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

~~D.6.19 Scrubber Inspections~~

~~An inspection shall be performed each calendar quarter of the Sinter Strand Plant Windbox gas cleaning systems dry venturi scrubbers. Inspections required by this condition shall not be performed in consecutive months.~~

Comment 171

Section D.6.21
USS requests the following corrections

Pursuant to 40 CFR 63, FFFFF, the Permittee shall comply with the following on or after May 22, 2006.

Explanation: Clarification of applicability date.

Response to Comment 171

Condition D.6.21

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general record keeping requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable record keeping requirements associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM Change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.21 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for Sinter Plants [40 CFR 63.7810(b)][40 CFR 3 Sinter Plant process and control equipment in accordance with 40 CFR 63.7810(b)] [40 CFR 63.7] in accordance with 40 CFR 63.7810(b)] [40 CFR 63.7]~~

~~(a) During the period between May 22, 2006 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, the Permittee shall maintain a log detailing the operation and maintenance of the No. 3 Sinter Plant process and control equipment in accordance with 40 CFR 63.7810(b).~~

~~(b) The Permittee shall keep the records required by 40 CFR 63.7842(a).~~

~~(c) If a Continuous Opacity Monitoring System (COMS) is used to comply with an opacity standard, the Permittee shall keep the records specified in 40 CFR 63.7842(b).~~

~~(d) The Permittee shall keep the records required in 40 CFR 63.6(h)(6) for visible observations in accordance with 40 CFR 63.7842(c).~~

~~(e) The Permittee shall keep the records required in 40 CFR 63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to the No. 3 Sinter Plant in 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, FFFFF in accordance with 40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

Comment 172

Section D.6.22. Item (c)(2)
USS requests the following corrections

> *(2) Maintain records of the VOC continuous emissions monitor system (CEMS) as required in 326 IAC 3-5.*

Section D.6.22. Item (a)(d)(e)
USS requests the following corrections

> *(a) To document compliance with Condition D.6.3 and pursuant to Significant Source Modification 089-12880-00121, issued on July 26, 2001, the Permittee shall maintain records of the Coke oven gas and natural gas usage in the No. 3 Sinter Plant ~~Sinter~~ Strand Windbox gas ~~recirculating~~ reheat burners ISB001, ISB002 and ISB003.*
>
> *(d) To document compliance with Condition D.6.15 the Permittee shall maintain records of once per shift visible emission notations of the Sinter ~~Strand~~ Plant Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station Stack IS6207 Sinter Cooler Stacks IS6203, IS6204 and IS6205 and Sinter Discharge Ends Area IS6200, IS6201 and IS6202 exhausts.*
>
> *(e) To document compliance with Condition D.6.16, the Permittee shall maintain the records of the Sinter ~~Strand~~ Plant Windbox Gas Cleaning system pressure drop across the baghouse; pressure drop and flow rate of the Sinter ~~Strand~~ Plant Windbox Gas Cleaning Scrubbers; pressure drop across the Cold Screen Station Baghouse and pressure drop across the Discharge Ends Area baghouse during normal operation on at least a once per ~~shift~~ day basis.*

Explanation: Correction to the ranges and request for reduction in monitoring frequency to daily. This is consistent with the requirements under the CCP and we feel it is sufficient to monitor compliance. Nomenclature corrections are also provided.

Response to Comment 172

Condition D.6.22 is renumbered Condition D.6.14

The monitoring frequency has been changed to once per day and to clarify nomenclature of control devices, the permit is revised as follows:

D.6.~~22~~**14** General Record Keeping Requirements

(b) To document compliance with Condition D.6.~~5~~ **4**, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide (SO_2) Record Keeping (Entire Source).

Section D.6.22. Item (c)(2)

(c) To document compliance with Condition D.6.~~6~~ **5**, the Permittee shall maintain the following records:

(1) Records of the VOC emissions monitoring data for the period May 1 through September 30, as follows:

(A) The VOC emitted each day.

(B) The cumulative total of VOC emitted.

(C) The sinter produced each operating day.

(2) Maintain records of the VOC continuous emissions monitor **system** (CEM**S**) as required in 326 IAC 3-5.

Section D.6.22. Item (a)(d)(e)

(a) To document compliance with Condition D.6.~~3~~**2** and pursuant to Significant Source Modification 089-12880-00121, issued on July 26, 2001, the Permittee shall maintain records of the Coke oven gas and natural gas usage in the No. 3 Sinter Plant ~~Sinter~~ Strand Windbox gas ~~recirculating~~ **reheat** burners ISB001, ISB002 and ISB003.

(d) To document compliance with Condition D.6.~~15~~**9** the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the ~~Sinter Strand **Plan**t Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station Stack IS6207~~ Sinter Cooler Stacks IS6203, IS6204 and IS6205 ~~and Sinter Discharge Ends Area IS6200, IS6201 and IS6202~~ exhausts.

(e) To document compliance with Condition D.6.~~16~~,**10** the Permittee shall maintain the records of the Sinter ~~Strand~~ **Plan**t Windbox Gas Cleaning system pressure drop across the baghouse; pressure drop and flow rate of the Sinter ~~Strand~~ **Plan**t Windbox Gas Cleaning Scrubbers; pressure drop across the Cold Screen Station Baghouse and pressure drop across the Discharge Ends Area baghouse during normal operation on at least a once per ~~shift~~ **day** basis.

Comment 173

Section D.6.22. Item (h)
USS requests the following corrections

(h) To document compliance with Condition D.6.8, the Permittee shall maintain records of any ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.

Explanation: The term additional was deleted because all inspections are required to be documented under the PMP.

Response to Comment 173

Items (g) and (h) are deleted, since the conditions D.6.17 and D.6.19 to inspection baghouses and scrubbers are deleted. Condition D.6.22 is renumbered D.6.14. The permit is revised as follows:

~~(g) To document compliance with Conditions D.6.17 and D.6.19, the Permittee shall maintain records of the results of the inspections required under Conditions D.6.17 and D.6.19~~

~~(h) To document compliance with Condition D.6.8, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(i)~~ **(f)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 174

Section D.6.23
USS requests the following corrections

Pursuant to 40 CFR 63, Subpart FFFFF, the Permittee shall comply with the following on or after May 22, 2006, unless otherwise specified:

Explanation: Clarification of applicability.

Response to Comment 174

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP reporting requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable reporting requirements associated with the sinter plant in the renumbered Condition D.6.16 (See IDEM change 38), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.23 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Reporting Requirements for Sinter Plants [40 CFR 63.7835][40 CFR 63.7640]~~

~~(a) The Permittee shall report each deviation in the Quarterly Deviation and Compliance Monitoring- Report required by the C Section of this permit in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).~~

~~(b) The Permittee shall submit the notifications required by 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e) and (f)(4) and 40 CFR 63.9(b) through (h) that apply by the dates specified in those sections in accordance with 40 CFR 63.7840(a).~~

~~(c) The Permittee shall submit an initial notification no later than September 17, 2003 in accordance with 40 CFR 63.9(b) and 40 CFR 63.7840. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The initial notification requires the certification by the "responsible official" as defined in 326 IAC 2-7-1(34).~~

~~(d) The Permittee shall submit a notification or compliance status in accordance with 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7840(e).~~

~~(1) For each initial compliance demonstration that does not include a performance test, the Permittee shall submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.~~

~~(2) For each initial compliance demonstration that does include a performance test, the Permittee shall submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2).~~

~~(3) The notification of compliance status shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The notification of compliance status requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(e) The Permittee shall submit semiannual compliance reports in accordance with 40 CFR 63.7841(a) and (b).~~

~~(f) If a start-up, shutdown or malfunction occurred during the semiannual reporting period that was not consistent with the start-up, shutdown or malfunction plan, the Permittee shall submit an immediate start-up, shutdown and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

Comment 175

Section D.6.23(a)
USS requests the following corrections:

(a) The Permittee shall report each deviation ~~in the Quarterly Deviation and Compliance Monitoring Report required by the C Section of this permit~~ semiannually in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), ~~326 IAC 2-1.1-11 and 326 IAC 2-7-5(3)~~.

Response to Comment 175

See IDEM's Response to Comment 174.

Comment 176

Section D.7, Facility Description

USS requests the following corrections:

Facility Description [326 IAC 2-7-5(15)]: *Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No.14 ~~13~~*

Explanation: Several corrections to the description of the blast furnaces are provided. The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13.

Section D.7, Facility Description, Item (b)
USS requests the following corrections:

(b) The No. 14 ~~13~~ Blast Furnace Stockhouse ~~(sinter screening station~~), constructed in 1979, identified as IDSH0367, controlled by dust suppression, services Blast Furnace 14 ~~s~~ ~~No. 4, 6, 8 and 13~~. The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4. . The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. . The No 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13. Sinter screening does not occur in this facility. We have added the stockhouse servicing each blast furnace.

Response to Comment 176

Condition A.3 and Section D.7 description box are revised as follows:

Facility Description [326 IAC 2-7-5(15)]: Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No.**14** ~~13~~

Section D.7, Facility Description, Item (b)

(b) The No. **14** ~~13~~ Blast Furnace Stockhouse ~~(sinter screening station)~~, constructed in 1979, identified as IDSH0367, controlled by dust suppression, services Blast Furnace **14** ~~s No. 4, 6, 8 and 13~~. **The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4. The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. The No 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.**

Comment 177

Section D.7, Facility Description, Item (c)
USS requests the following corrections:

(c) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and'/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute into the No. 4 Blast Furnace.~~

(1)~~(2)~~ Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 ~~200~~ MMBtu per hour total ~~each~~,

combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.

(2) ~~(3)~~ No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

(3)~~(4)~~ One (1) Slag Pit, identified as IASP0311, with ~~exhausting~~ fugitive emissions.

Explanation: Item (1) was deleted tuyreres are part of the blast furnace among many other parts. The tuyreres do not function as injectors for fuels. Only the stoves, the casthouse and the slag pits are emission units at the Blast Furnaces. The word “exhausting“ was deleted because the word incorrectly implies the emissions pass through a mechanical exhaust device.

Response to Comment 177

Condition A.3 and Section D.7 description box are revised as follows:

Section D.7, Facility Description, Item (c)

(c) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas **and using pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.**

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute into the No. 4 Blast Furnace.~~

(1)(~~2)~~ Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of **350** ~~200~~ MMBtu per hour **total** ~~each,~~ combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.

(2) ~~(3)~~ No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

(3)(4) One (1) Slag Pit, identified as IASP0311, **with** ~~exhausting~~ fugitive emissions.

Comment 178

Section D.7, Facility Description, Item (d)
USS requests the following corrections:

(d) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 ~~175~~ tons per hour, identified as IBBFO341, using a Blast Furnace Gas Distribution System to collect

the blast furnace gas and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.

~~*(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate 70 gallons per minute into the No. 6 Blast Furnace.*~~

(1)(~~2~~) Four (4) ~~Three (3)~~ No. 6 Blast Furnace Stoves identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 ~~200~~ MMBtu per hour total ~~each~~,, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(2) ~~(3)~~ No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

(3)(~~4~~) One (1) Slag Pit, identified as IBSP0335, with ~~exhausting~~ fugitive emissions.

Explanation: Item (d) was revised because 200 tons per hour was used in the model derived for the current PM_{10} SIP rule. Item (1) was deleted because tuyreres are part of the blast furnace among many other parts. The tuyreres do not function as injectors for fuels. Only the stoves, the casthouse and the slag pits are emission units at the Blast Furnaces. Item (2) was revised because 350 MMBtu total is used in the model derived for the current PM_{10} SIP rule. The word “exhausting“ was deleted because the word incorrectly implies the emissions pass through a mechanical exhaust device.

Response to Comment 178

Condition A.3 and Section D.7 description box are revised as follows:

(d) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of **200** ~~175~~ tons per hour, identified as IBBFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and **using pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.**

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate 70 gallons per minute into the No. 6 Blast Furnace.~~

(1)(~~2~~) **Four (4)** ~~Three (3)~~ No. 6 Blast Furnace Stoves identified as IBST0361, replaced in 1997, with a maximum heat input capacity of **350** ~~200~~ MMBtu per hour **total** ~~each,~~, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(2) ~~(3)~~ No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

(3) ~~(4)~~ One (1) Slag Pit, identified as IBSP0335, **with** ~~exhausting~~ fugitive emissions.

Comment 179

Facility Description [326 IAC 2-7-5(15)]: *Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No. 14 ~~13~~ (continued):*

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13.

Response to Comment 179

Condition A.3 and Section D.7 description box are revised as follows:

Facility Description [326 IAC 2-7-5(15)]: Four (4) Blast Furnaces, designated as Blast Furnace No.4, Blast Furnace No. 6, Blast Furnace No. 8 and Blast Furnace No. **14** ~~13~~ (continued):

Comment 180

Section D.7, Facility Description, Item (e)
USS requests the following corrections:

(e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 ~~160~~ tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute into the No. 8 Blast Furnace.~~

(1)~~(2)~~ Four (4) ~~Three (3)~~ No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 ~~200~~ MMBtu per hour total ~~each~~, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(2)~~(3)~~ No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

(3)~~(4)~~ One (1) Slag Pit, identified as ICSP0363, with ~~exhausting~~ fugitive emissions.

Explanation: Item (e) was revised because 183 tons per hour is used in the model derived for the current PM_{10} SIP rule. Item (1) was deleted because tuyreres are part of the blast furnace among many other parts. The tuyreres do not function as injectors for fuels. Only the stoves, the casthouse and the slag pits are emission units at the Blast Furnaces. Item (2) was revised because 325 MMBtu total was used in the model derived for the current PM_{10} SIP rule. The word “exhausting“ was deleted because the word incorrectly implies the emissions pass through a mechanical exhaust device.

Response to Comment 180

Condition A.3 and Section D.7 description box are revised as follows:

(e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of **183**~~160~~ tons per

hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas **and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute**.

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute into the No. 8 Blast Furnace.~~

(1)(~~2)~~ **Four (4)** ~~Three (3)~~ No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of **325** ~~200~~ MMBtu per hour **total** ~~each~~, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(2)~~ (3)~~ No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

(3)(~~4~~) One (1) Slag Pit, identified as ICSP0363, **with** ~~exhausting~~ fugitive emissions.

Comment 181

Section D.7, Facility Description, Item (f)
USS requests the following corrections:

(f) No. 14 ~~13~~ Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 80 ton per hour, oil at a rate of 150 gallons per minute and /or coal tar at a rate of 150 gallons per minute.

~~*(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute into the No.13 Blast Furnace.*~~

(1) ~~(2)~~ Three (3) No. 14 ~~Four (4) No.13~~ Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 ~~330~~ MMBtu per hour total ~~each~~, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184

(2) ~~(3)~~ No. 14 ~~13~~ Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187and fugitive emissions exhausting through the casthouse roof monitor ID6013;

(3) ~~(4)~~ One (1) Slag Pit, identified as IDSP0371, with ~~exhausting~~ fugitive emissions.

Explanation: The name of Blast Furnace No. 13 is changed to No.14 as of the submittal of the permit application for the relining of Blast Furnace No. 13. Item (1) was deleted because tuyreres are part of the blast furnace among many other parts. The tuyreres do not function as injectors for fuels. Only the stoves, the casthouse and the slag pits are emission units at the Blast Furnaces. Item (2) was revised because 700 total is used in the model derived for the current PM_{10} SIP rule. The word “exhausting“ was

deleted because the word incorrectly implies the emissions pass through a mechanical exhaust device.

Response to Comment 181

Condition A.3 and Section D.7 description box

The Significant Source Modification 089-20118-00121, issued October 20, 2005 to construct the activities involved in the No. 14 Blas Furnace Reline Project are included in the description box of this permit. Therefore, the permit is revised as follows:

(f) No. **14** ~~13~~ Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas **and using pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and /or coal tar at a rate of 150 gallons per minute.**

~~(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute into the No.13 Blast Furnace.~~

(1)~~(2)~~ **Three (3) No. 14** ~~Four (4) No.13~~ Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of **700** ~~330~~ MMBtu per hour **total** ~~each~~, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184

(2)~~(3)~~ No. **14** ~~13~~ Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187and fugitive emissions exhausting through the casthouse roof monitor ID6013;

(3)~~(4)~~ One (1) Slag Pit, identified as IDSP0371, **with** ~~exhausting~~ fugitive emissions.

(4) Pursuant to Significant Source Modification 089-20118-00121, issued October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were approved for construction:

(A) Replacement of furnace refractory lining with new and thinner refractory brick.

(B) Replacement of furnace shell.

(C) Removal and replacement of the top charging system with a new "bell-less" charging system.

(D) Placement of new copper staves in the mantle area of the furnace.

(E) Installation of copper cooling plates and a new bustle pipe.

(F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.

(G) Enlargement of the slag granulator and addition of a stack.

(H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.

(I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.

Comment 182

Section D.7, Facility Description, Item (g)
USS requests the following corrections:

(g) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas ~~pressure~~ to the three (3) bleeder stacks equipped with Flare No. 1 Identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.

Section D.7, Facility Description, Item (h) and (i)
USS requests the following corrections:

(h) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.~~, exhausting through stack IM6025.~~

(i) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.~~, exhausting through stack IM6025~~.

Explanation: There are not any stacks or mechanical exhausting devices at the iron beaching building or for the transfer ladle maintenance operation.

Response to Comment 182

Condition A.3 and Section D.7 description box are revised as follows:

Section D.7, Facility Description, Item (g)

(g) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess **blast furnace gas** ~~pressure~~ to the three (3) bleeder stacks equipped with Flare No. 1 Identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.

Section D.7, Facility Description, Item (h) and (i)

(h) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378. ~~exhausting through stack IM6025.~~

(i) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.~~, exhausting through stack IM6025.~~

Comment 183

Section D.7.1, Item (a)
USS requests the following corrections:

> *(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected sources, No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No.14 ~~13~~ Blast Furnace, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee shall comply with General Provisions requirements on and after May 22, 2006 ~~May 20, 2003~~.*

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13.The date listed was for new sources. May 22, 2006 is the deadline for existing sources.

Response to Comment 183

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP language from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable requirements associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

D.7.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (HAPs): [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to **[**40 CFR 63, Subpart FFFFF]

~~(a)~~ The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to **the affected sources,** the No. 4 Blast Furnace **casthouse**, No. 6 Blast Furnace **casthouse,** No. 8 Blast Furnace **casthouse** and No. ~~13~~ **14** Blast Furnace **casthouse**, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. ~~The Permittee shall comply with General Provisions requirements on and after May 20, 2003.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.7.19, National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing - Emission Limitations for Blast Furnaces [40 CFR 63, Subpart FFFFF]~~

Section D.7.2, Item (d)
USS requests the following corrections:

> *(d) The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the casthouses on or after May 22, 2006 ~~and roof monitors~~.*

Explanation: MACT does not discuss roof monitors at 40 CFR 63.7790. The applicability date was clarified.

Response to Comment 184

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general

emission limitations from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable emission limitations associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Emission Limitations for Blast Furnaces~~ [40 CFR 63, Subpart FFFFF]

~~(a) The provisions of 40 CFR 63, Subpart FFFFF (National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing) apply to the affected sources. A copy of this rule is available on the US EPA Toxics Website at http://www.epa.gov/ttn/atw/eparules.html. The Permittee must comply with these requirements on and after May 22, 2006.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph(a) of this condition.~~

~~(c) Terminology used in this section are defined in the CAA, 40 CFR 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

~~(d) The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the casthouses and roof monitors.~~

~~(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b).~~

~~(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace and required capture and control equipment.~~

~~(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace and required capture and control equipment.~~

Section D.7.2, Item (e) through (h)
USS requests the following corrections:

(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment on or after May 22, 2006.

(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR

63.7835(b) on or after May 22, 2006.

(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment on or after May 22, 2006.

(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment on or after May 22, 2006.

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13. The applicability date was clarified.

Response to Comment 185

See IDEM's Response to Comment 184.

Comment 186

Section D.7.3, Item (d) and (e)
USS requests the following corrections:

(d) The PM_{10} emissions from the Blast Furnace No. 14 ~~13~~ stoves Stack ID6184 shall not exceed 0.029 pound per MMBtu of heat input and a total of 20.40 pounds per hour.

(e) The PM_{10} emissions from the Number 14 ~~13~~ Blast Furnace Casthouse Baghouse Stack ID6187shall not exceed 0.0090 grains per dry standard cubic feet ~~pound per MMBtu of heat input~~ and 38.57 pounds per hour.

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 13. The correct limitation was provided.

Response to Comment 186

Condition D.7.2

The Blast Furnace number is changed and the casthouse emission limit units are revised. The permit is revised as follows:

D.7.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

(d) The PM_{10} emissions from the Blast Furnace No. **14** ~~13~~ stoves Stack ID6184 shall not exceed 0.029 pound per MMBtu of heat input and a total of 20.40 pounds per hour.

(e) The PM_{10} emissions from the Number **14** ~~13~~ Blast Furnace Casthouse Baghouse Stack ID6187shall not exceed 0.0090 **grains per dry standard cubic feet** ~~pound per MMBtu of heat input~~ and 38.57 pounds per hour.

Comment 187

Section D.7.4,
USS requests the following corrections:

> *Pursuant to 326 IAC 6-1-2 (a), particulate emissions from the iron beaching and ladle maintenance ~~stack IM6025~~ shall not exceed three hundredths (0.03) grains per dry standard cubic feet (gr/dscf).*

Explanation: This facility does not have a stack nor a mechanical exhausting device.

Response to Comment 187

326 IAC 326 6.8-1-3 (formerly 326 IAC 6-1-3) specifies that the appropriate method for determining compliance with the provisions of 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) is a Method 5 stack test. Since iron beaching and ladle maintenance are sources of fugitive emissions, which do not vent to a stack, IDEM agrees that a reasonable interpretation of the rule is that it was not intended to apply to fugitive emissions. Therefore, IDEM has revised Condition D.7.4 as shown below:

D.7.**43** ~~Particulate Matter Emissions [326 IAC 6.8-1-2(a)]~~ **Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]**

~~Pursuant to 326 IAC 6.8-1-2(a), particulate emissions from the iron beaching and ladle maintenance stack IM6025 shall not exceed three hundredths (0.03) grains per dry standard cubic feet (gr/dscf)~~

(a) Pursuant to 326 IAC 6-4-2:

(1) The iron beaching and ladle maintenance generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above

background; and

P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from iron beaching and ladle maintenance generating fugitive emissions shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

Comment 188

Section D.7.5
USS requests the following corrections:

D.7.5 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20 ~~4-1.1(c)(22)(J)~~]

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(I)(J), and (K), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.13 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is not operating:

Blast Furnace No. 4 Stove Stack	*0.115 lbs/mmbtu*	*40.25 lb/hr total*
Blast Furnace No. 6 Stove Stack	*0.115 lbs/mmbtu*	*40.25 lb/hr total*
Blast Furnace No. 8 Stove Stack	*0.115 lbs/mmbtu*	*37.38 lb/hr total*
Blast Furnace No.1 4 Stove Stack	*0.134 lbs/mmbtu*	*93.50 lb/hr total*
Blast Furnace No. 14 Casthouse Baghouse Stack	*---*	*115.0 lb/hr*

(b) Pursuant to 326 IAC 7-4.1-20(b)(5) and (9), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.13 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is operating:

Blast Furnace No. 4 Stove Stack	*0.115 lbs/mmbtu*	*40.25 lb/hr total*

Blast Furnace No. 6 Stove Stack	*0.115 lbs/mmbtu*	*40.25 lb/hr total*
Blast Furnace No. 8 Stove Stack	*0.115 lbs/mmbtu*	*37.38 lb/hr total*
Blast Furnace No.1 4 Stove Stack	*0.134 lbs/mmbtu*	*93.50 lb/hr total*
Blast Furnace No. 14 Casthouse Baghouse Stack	*---*	*115.0 lb/hr*

~~*Pursuant to 326 IAC 7-4-1.1(c)(22)(J), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.13 Blast Furnace Stoves IDST0359 shall comply with the following:*~~

~~*(a) The SO_2 emissions from each Blast Furnace Nos. 4, 6, 8 and 13 stoves Stack IA6160, IB6168, IC6175 and ID6184 shall not exceed 0.002 pound per MMBtu of heat input.*~~

~~*(b) Only two (2) out of three (3) stoves at each of the Blast Furnace Nos. 4, 6 and 8 shall fire fuel simultaneously.*~~

~~*(c) Only three (3) out of four (4) stoves at Blast Furnace No.13 shall fire fuel simultaneously.*~~

Explanation: The citations and permit limits were corrected for consistency with the newly revised SO2 SIP. Also, the stove firing functions are not limited by regulation.

Response to Comment 188

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The revised requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.7.~~5~~**4** Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(J)]~~ **[326 IAC 7-4.1-20]**

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(J), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.13 Blast Furnace Stoves IDST0359 shall comply with the following:~~

~~(a) The SO_2 emissions from each Blast Furnace Nos. 4, 6, 8 and 13 stoves Stack IA6160, IB6168, IC6175 and ID6184 shall not exceed 0.002 pound per MMBtu of heat input.~~

~~(b) Only two (2) out of three (3) stoves at each of the Blast Furnace Nos. 4, 6 and 8 shall fire fuel simultaneously.~~

~~(c) Only three (3) out of four (4) stoves at Blast Furnace No.13 shall fire fuel simultaneously.~~

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(I)(J), and (K), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.14 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is not operating:

Furnace	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Blast Furnace No. 4 Stove Stack	**0.115**	**40.25 total**
Blast Furnace No. 6 Stove Stack	**0.115**	**40.25 total**
Blast Furnace No. 8 Stove Stack	**0.115**	**37.38 total**
Blast Furnace No.14 Stove Stack during periods when combusting blast furnace gas	**0.134**	**93.50 total**
Blast Furnace No. 14 Casthouse Baghouse Stack during periods when Blast Furnace No. 14 Stoves are combusting blast furnace gas.	**---**	**115.0**

(c) Pursuant to 326 IAC 7-4.1-20(b)(5) and (9), the SO_2 emissions from the No.4 Blast Furnace Stoves IAST0360, No.6 Blast Furnace Stoves IBST0361, No.8 Blast Furnace Stoves ICST0362 and No.14 Blast Furnace Stoves IDST0359 shall comply with the following when the coke oven gas desulfurization unit is operating:

Furnace	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Blast Furnace No. 4 Stove Stack	**0.115**	**40.25 total**
Blast Furnace No. 6 Stove Stack	**0.115**	**40.25 total**
Blast Furnace No. 8 Stove Stack	**0.115**	**37.38 total**
Blast Furnace No.14 Stove Stack	**0.134**	**93.50 total**
Blast Furnace No. 14 Casthouse Baghouse Stack	**---**	**115.0**

Comment 189

Section D.7.6
USS requests the following corrections:

~~D.7.6 Carbon Monoxide (CO) Limitations~~

~~Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. 13 Blast Furnace IDBF0369, waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.~~

Explanation: IDEM has determined that this limitation does not apply to integrated steel mills as evidenced by this limitation exclusion in the Part 70 permits of other integrated steel mills. The rule applies to ferrous metal smelters, not to integrated steel production. This condition, as written would not

allow this facility to operate as there is no afterburner, boiler or incinerator at this facility.

Response to Comment 189

326 IAC 9-1-2(2) carbon monoxide limitation applies to blast furnaces and basic oxygen steel furnaces constructed after March 21, 1972 at integrated steel mills. Blast Furnace No. 14 was constructed in 1974. The blast furnace gas is captured in the blast furnace gas distribution system that has flare controls and the blast furnace gas is combusted in boilers. Therefore the permit is not revised as a result of this comment.

To clarify where the limitations are cited, the rule cite is added to the condition title and the blast furnace number is changed. The permit is revised as follows:

D.7.~~6~~**5** Carbon Monoxide (CO) Limitations **[326 IAC 9-1-2(2)]**

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. ~~13~~ **14** Blast Furnace IDBF0369, waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

Comment 190

Section D.7.7
USS requests the following corrections:

Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan of this permit, is required for any emission control devices at these facilities ~~*these facilities and any associated control devices.*~~

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 190

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires

identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section."

Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the blast furnaces themselves because lack of proper maintenance on the blast furnaces can result in increased emissions. Therefore the permit is not revised as result of this comment.

Comment 191

Section D.7.8
USS requests the following corrections:

D.7.8 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for Blast Furnaces [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]

Pursuant to 40 CFR 63, Subpart FFFFF, the Permittee shall comply with the following requirements on or after May 22, 2006.

Explanation: This revise clarifies the date of applicability of this condition in accordance with the MACT standard.

Response to Comment 191

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general compliance requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance requirements associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later 9than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.8 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for Blast Furnaces [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]~~

~~(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.7.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3.~~

~~(b) The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 Blast Furnace in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 Blast Furnace, in accordance with 40 CFR 63.7826.~~

~~(d) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR 63, Subpart FFFFF, in accordance with 40 CFR 63.7832.~~

~~(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 Blast Furnace and required capture and control equipment in accordance with 40 CFR 63.7833.~~

~~(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 Blast Furnace and required capture and control equipment in accordance with 40 CFR 63.7834.~~

Comment 192

Section D.7.8, (b), (c), (e) and (f)
USS requests the following corrections:

(b) The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace in accordance with 40 CFR 63.7825.

(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace, in accordance with 40 CFR 63.7826.

(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment in accordance with 40 CFR 63.7833.

(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment in accordance with 40 CFR 63.7834.

Explanation: The name of Blast Furnace No. 13 is changed to No. 14 as of the submittal of the permit application for the relining of Blast Furnace No. 14. The correct limitation was provided.

Response to Comment 192

See IDEM's Response to Comment 191.

Comment 193

Section D.7.9
USS requests the following corrections:

D.7.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing -Testing Requirements for Blast Furnaces [40 CFR 63.7820 through 63.7824]

Pursuant to 40 CFR 63, Subpart FFFFF, the Permittee shall comply with the following requirements on or after May 22, 2006.

(a) The Permittee shall conduct performance tests and other initial compliance

demonstrations that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace in accordance with 40 CFR 63.7821.

(b) The Permittee shall conduct subsequent performance tests that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace, in accordance with 40 CFR 63.7821.

(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for ~~the~~ No. 14 Blast Furnace casthouses PM_{10} emissions control systems. ~~and roof monitors.~~

(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the casthouses and roof monitors.

(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace and required capture and control equipment.

Explanation: This revision clarifies the date of applicability of this condition in accordance with the MACT standard.

Response to Comment 193

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general testing requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable testing requirements associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Testing Requirements for Blast Furnaces [40 CFR 63.7820 through 63.7824]~~

~~(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace in accordance with 40 CFR 63.7821.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace, in accordance with 40 CFR 63.7821.~~

~~(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for the casthouses and roof monitors.~~

~~(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the casthouses and roof monitors.~~

~~(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace and required capture and control equipment.~~

Comment 194

Section D.7.10
USS requests the following corrections:

> *Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last valid compliance demonstration which ever is earlier, in order to demonstrate compliance with Condition D.7.3, the Permittee shall perform PM_{10} testing for noncondensibles (front half) on the No. 14 ~~Nos. 4, 6, 8 and 13 Blast Furnace Stoves Stacks IA6160, IB6168, IC6175 and ID6184 and No. 13~~ Blast Furnace Casthouse Baghouse Stack ID6187 using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) ~~two and one half (2 ½)~~ years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*

Explanation: Condensible PM at this location believed to be negligible as evidenced by modeling conducted for the latest revision of the Lake County PM_{10} rule. The revised condition is consistent with MACT (40 CFR 63.7822) which dictates Method 5 (front half only). Testing for sources that burn multiple fuels does not ensure compliance because emissions are dependent upon the mix at the time of testing. Continuous compliance is ensured by calculating hourly emissions based on accurate emission factors and hourly fuel usage. These emission estimates are accurate because AP-42 natural gas emission factors carry A ratings. Additionally, the published emission factors for BFG have been verified through testing data. Thus, the emission factors and testing show these are insignificant particulate sources. The frequency of testing is over burdensome especially considering these are insignificant particulate sources. Additionally, for particulate matter at sources burning multiple gaseous fuels at Gary Works does not insure compliance, because the availability and mixtures of various fuels. Compliance for particulate matter can best be determined using published factors for gaseous fuels which do not change significantly over time. We request deletion of this requirement since daily fuel usage and emissions are parametrically monitored and reported for the facility.

Response to Comment 194

Condition D.7.10 is renumbered D.7.7.

The PM_{10} testing requirements for the Nos. 4, 6, 8 and 14 Blast Furnace Stove Stacks are removed, since they are insignificant sources for PM_{10}. The rule cite and testing method required to measure PM_{10} emissions from the No. 14 Blast Furnace Casthouse Baghouse Stack are clarified. The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4. See IDEM review Change 19 for 326 IAC 6 Particulate Limitation Rule citation revisions. The permit is revised as follows:

> Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last valid compliance demonstration which ever is earlier, in order to demonstrate compliance with Condition D.7.3, the Permittee shall perform PM_{10} testing on the ~~Nos. 4, 6, 8 and 13 Blast Furnace Stoves Stacks IA6160, IB6168, IC6175 and ID6184 and No. 13~~ **No. 14** Blast Furnace Casthouse Baghouse Stack ID6187 using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every two and one half (2 ½) years from

the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 195

Section D.7.11
USS requests the following corrections:

D.7.11 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis [326 IAC 7-4.1-2~~1.1(d)~~]

Response to Comment 195

Condition D.7.11 is renumbered D.7.8.

See response to comment 141.

Comment 196

Section D.7.12
USS requests the following corrections:

(a) Particulate Matter Control

(1) The Nos. 4, 6 and 8 Blast Furnace natural gas iron oxide fume suppression systems IA3177, IB3178, IC3179, shall be in operation in order minimize particulate matter emissions as follows:

(A) The iron and slag runners at the No. 4 Blast Furnace shall be equipped with a ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(B) The iron and slag runners at the No. 6 Blast Furnace shall be equipped a ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(C) The iron and slag runners at the No. 8 Blast Furnace shall be equipped a ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

~~*(D) The runner covers can be removed during the tap hole drilling or closing operation and shall be promptly returned in position to cover the runners in the casthouse during a cast.*~~

(2) The No. 14 ~~13~~ blast furnace Casthouse Baghouse ID3185 shall be in operation at all times during casting operations at the No. 14 ~~13~~ Blast Furnace Casthouse is in operation.

(b) Carbon Monoxide Emissions Control

The Blast Furnace Gas Distribution System Flare controls GC3629, GC3628 and GC3627 and bleeder stack Flare No. 1 BG6073, Flare No. 2 BG6074 and Flare No. 4 BG6075 shall be in operation and the pilot flame shall be present at all times when the No. 14 ~~13~~

Blast Furnace, No. 4 Blast Furnace, No. 6 Blast Furnace and No. 8 Blast Furnace are in operation in order to minimize CO emissions.

Explanation: Covers do not control emissions in this application. Item (a)(1)(D) was deleted because allotment is needed for maintenance and malfunctions. Item (a)(2) was revised because the baghouse is used only during casting operations at the casthouse, which is where casting operations take place.

Response to Comment 196

Since the covers do not control emissions in this application and to change the name of the Blast Furnace No. 14, the permit is revised as shown below:

Upon further review, IDEM has determined that for multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.7.10(a) requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

D.7.~~12~~ **9** ~~Emissions~~ **Particulate Matter and CO** Controls **[326 IAC 2-7-6(6)]**

(a) **Except as otherwise provided by statute, rule or this permit**, the baghouses for PM control shall be in operation and control emissions at all times the associated coal processing or drop point conveyors are in operation.

(1) Nos. 4, 6 and 8 Blast Furnace natural gas iron oxide fume suppression systems IA3177, IB3178, IC3179, shall be in operation in order minimize particulate matter emissions as follows:

(A) The iron and slag runners at the No. 4 Blast Furnace shall be equipped with **a** ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(B) The iron and slag runners at the No. 6 Blast Furnace shall be equipped with **a** ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

(C) The iron and slag runners at the No. 8 Blast Furnace shall be equipped with **a** ~~covers and~~ natural gas fired lance for fume suppression during the cast to minimize particulate matter emissions.

~~(D) The runner covers can be removed during the tap hole drilling or closing operation and shall be promptly returned in position to cover the runners in the casthouse during a cast.~~

(2) The No. **14** ~~13~~ blast furnace Casthouse Baghouse ID3185 shall be in operation at all times **during casting operations at** the No. **14** ~~13~~ Blast Furnace Casthouse is in operation.

(3) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units

will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) Carbon Monoxide Emissions Control

The Blast Furnace Gas Distribution System Flare controls GC3629, GC3628 and GC3627 and bleeder stack Flare No. 1 BG6073, Flare No. 2 BG6074 and Flare No. 4 BG6075 shall be in operation and the pilot flame shall be present at all times when the No. **14** ~~13~~ Blast Furnace, No. 4 Blast Furnace, No. 6 Blast Furnace and No. 8 Blast Furnace are in operation in order to minimize CO emissions.

Comment 197

Section D.7.13, Item (a)

USS requests the following corrections:

(a) Visible emission notations of the Iron Beaching facility shall be performed once per shift during normal daylight operations when beaching operations are being conducted ~~No. 13 Blast Furnace Casthouse Baghouse Stack ID6187 and iron beaching shall be performed once per shift during normal daylight operations when exhausting to the atmosphere.~~ A trained employee shall record whether emissions are normal or abnormal.

Explanation: Visible emission notations are over burdensome for this facility. The amount of particulate data monitored and recorded in accordance with the CCP (and with the future MACT) is more than sufficient to ensure continuous compliance with PM.

Response to Comment 197

Condition D.7.13 is renumbered D.7.10.

326 IAC 6.8-8-7(A) requires a Continuous Compliance Plans (CCP) for baghouses to include a description of any visible emissions evaluation program. Item (f) has been added to address this issue.

Upon further review, IDEM has determined that once per day visible emission notations is generally sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the permit is revised as shown below.

Compliance monitoring conditions such as the requirement to perform visible emission notations are necessary to demonstrate continuous compliance with the permit requirements. Visible emission notations are used to indicate compliance with 326 IAC 5-1 and the particulate matter limits pursuant to 326 IAC 6.8-10-3.

Condition D.7.10(e) has been revised to reflect the new Compliance Response Plan condition title. See IDEM change 24.

D.7.~~13~~ **10** Visible Emissions Notations

(a) Visible emission notations of the No. ~~13~~ **14** Blast Furnace Casthouse Baghouse Stack ID6187 and iron beaching shall be performed once per ~~shift~~ **day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or

expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed**, the Permittee shall take reasonable response steps in accordance with** Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

Comment 198

Section D.7.14
USS requests the following corrections:

The Permittee shall record the pressure drop across the No. 14 ~~13~~ Blast Furnace Cast house baghouse ID3185, at least once per shift when the No.14 ~~13~~ Blast Furnace Casthouse is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 3.0 to 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan Implementation, Records, and Reports, shall be considered a deviation of this permit.

Response to Comment 198

Condition D.7.14 is renumbered D.7.11.

The Blast Furnace No.13 is changed to No.14.

Upon further review, IDEM has determined that once per day monitoring of the control device is sufficient to satisfy the requirements of the Part 70 rules under 326 IAC 2-7-5 and 326 IAC 2-7-6.

The requirement for Continuous Compliance Plan (CCP) is listed in Section C Entire Source. A reference to this Section C condition is added to the permit to clarify a CCP is required for the particulate control device in this D Section. Therefore, the permit is revised as shown below:

D.7.~~14~~**11**Parametric Monitoring

(a) The Permittee shall record the pressure drop across the No.**14** ~~13~~ Blast Furnace Cast house baghouse ID3185, at least once per ~~shift~~ **day** when the No.**14** ~~13~~ Blast Furnace Casthouse is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of ~~3.0 to 9.0~~ **3 to 9** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions and Exceedances.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions and Exceedances**, shall be considered a deviation of this permit.

(b) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C-Continuous Compliance Plan.

(c) The instruments used for determining the pressure drop and flow rate shall comply with Section C - ~~Pressure Gauge and Other~~ Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

Comment 199

Section D.7.15
USS requests the following corrections:

An inspection shall be performed each calendar quarter of the No. 13 Casthouse Baghouse ID3185. Inspections required by this condition shall not be performed in consecutive months. All known defective bags shall be replaced.

Explanation: Quarterly inspections of the baghouse and its systems are performed in accordance with the CCP. Problems with bags are normally indicated through means other than a physical bag inspection.

Response to Comment 199

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed. Therefore the permit is revised as follows:

~~D.7.15 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of the No.**14** 13 Casthouse Baghouse ID3185. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

Comment 200

Section D.7.16, Item (b)
USS requests the following corrections:

> ~~*(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).*~~

Explanation: There are no single compartment baghouses in the blast furnace area.

Response to Comment 200

Paragraph (a) of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.7.9 requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition. See response to comment 196.

Paragraph (b) of this condition has been deleted. IDEM received an email October 17, 2005 from US Steel-Gary Works stating no single compartment baghouses are in service at the source. Therefore, the permit is revised as follows:

~~D.7.16 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units~~

~~and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

Comment 201

Section D.7.17
USS requests the following corrections:

Pursuant to 40 CFR 63, Subpart FFFFF, the Permittee shall comply with the following on or after May 22, 20006:

(a) During the period between May 22, 2006 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, the Permittee shall maintain a log detailing the operation and maintenance of the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 14 ~~13~~ Blast Furnace control equipment in accordance with 40 CFR 63.7810(b).

Explanation: This revision clarifies the date of applicability of this condition in accordance with the MACT standard.

Response to Comment 201

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general record keeping requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable record keeping requirements associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.17 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for Blast Furnaces [40 CFR 63.7810(b)][40 CFR 63.7]~~

~~(a) During the period between May 22, 2006 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, the Permittee shall maintain a log detailing the operation and maintenance of the No. 4 Blast Furnace, No. 6 Blast Furnace, No. 8 Blast Furnace and No. 13 Blast Furnace control equipment in accordance with 40 CFR 63.7810(b).~~

~~(b) The Permittee shall keep the records required by 40 CFR 63.7842(a).~~

~~(c) If a Continuous Opacity Monitoring System (COMS) is used to comply with an opacity standard, the Permittee shall keep the records specified in 40 CFR 63.7842(b).~~

~~(d) The Permittee shall keep the records required in 40 CFR 63.6(h)(6) for visible observations in accordance with 40 CFR 63.7842(c).~~

~~(e) The Permittee shall keep the records required in 40 CFR 63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to the No. 2 Q-BOP Shop in 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, FFFFF in accordance with~~

~~40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

Comment 202

Section D.7.18, Items (b)-(e)
USS requests the following corrections:

(b) To document compliance with Condition D.7.7 the Permittee shall maintain records of any ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.

(c) To document compliance with Condition D.7.13, the Permittee shall maintain records of ~~once per shift~~ visible emission notations of the iron beaching facility during iron beaching operations. ~~No. 13 Casthouse Baghouse Stack (ID6187) when in operation~~.

(e) To document compliance with Condition D.7.14, the Permittee shall maintain the records of the once per shift total static pressure drop of the No.14 ~~13~~ Casthouse Baghouse during normal operation.

Explanation Visible emission notations are overly burdensome for the baghouse operation. The amount of parametric data monitored and recorded in accordance with the CCP (and with the future MACT) is more than sufficient to ensure continuous compliance with PM.

Response to Comment 202

Condition D.7.18 is renumbered D.7.12.

Items (b) and (f) are deleted, since the condition D.7.15 to inspection the baghouse and the requirements to keep records of the inspections are removed. Renumbered item (b) is revised to reflect the addition of VE notation for the iron beaching in Condition D.7.10. The permit is revised as shown below.

D.7.~~18~~ **12**General Record Keeping Requirements

(a) To document compliance with Condition D.7.~~5~~**4**, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide SO_2 Record Keeping (Entire Source).

~~(b) To document compliance with Condition D.7.7 the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(c)~~ **(b)** To document compliance with Condition D.7.~~13~~ **10**, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the No.~~13~~ **14** Casthouse Baghouse Stack (ID6187) **and the iron beaching facility** when in operation.

~~(e)~~ **(c)** To document compliance with Condition D.7.~~14~~ **11**, the Permittee shall maintain the records of the once per ~~shift~~ **day** ~~total static~~ pressure drop of the No. ~~13~~ **14** Casthouse Baghouse during normal operation.

(f) ~~To document compliance with Conditions D.7.15, the Permittee shall maintain records of the results of the required inspections~~.

~~(g)~~ **(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 203

Section D.7.19
USS requests the following corrections:

D.7.19 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Reporting Requirements for Blast furnaces [40 CFR 63.7835][40 CFR 63.7640]

Pursuant to 40 CFR 63, FFFFF, the Permittee shall comply with the following on or after May 22, 2006.

Explanation: This revision clarifies the date applicability of this condition in accordance with the MACT standard.

Response to Comment 203

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general reporting requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable reporting requirements associated with the blast furnaces in the renumbered Condition D.7.16 (See IDEM Change 28), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.19 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Reporting Requirements for Blast furnaces [40 CFR 63.7835][40 CFR 63.7640]~~

~~(a) The Permittee shall report each deviation in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).~~

~~(b) The Permittee shall submit the notifications required by 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e) and (f)(4) and 40 CFR 63.9(b) through (h) that apply by the dates specified in those sections in accordance with 40 CFR 63.7840(a).~~

~~(c) The Permittee shall submit an initial notification no later than 120 days after May 20, 2003 in accordance with 40 CFR 63.9(b) and 40 CFR 63.7840. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The initial notification requires the certification by the "responsible official" as defined in 326 IAC 2-7-1(34).~~

~~(d) The Permittee shall submit a notification of compliance status in accordance with 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7840(e).~~

~~(1) For each initial compliance demonstration that does not include a performance test, the Permittee shall submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.~~

~~(2) For each initial compliance demonstration that does include a performance test,~~

~~the Permittee shall submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2).~~

~~(3) The notification of compliance status shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The notification of compliance status requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(e) The Permittee shall submit semiannual compliance reports in accordance with 40 CFR 63.7841(a) and (b).~~

~~(f) If a start-up, shutdown or malfunction occurred during the semiannual reporting period that was not consistent with the start-up, shutdown or malfunction plan, the Permittee shall submit an immediate start-up, shutdown and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

Comment 204

Section D.7.19(a)
USS requests the following corrections:

(*a) The Permittee shall report each deviation* <u>*semiannually*</u> ~~*in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit*~~ *in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).*

Explanation: NESHAP only requires semiannual reporting of deviations and semiannual certification.

Response to Comment 204

See IDEM's Response to Comment 203.

Comment 205

Section D.7.19(d)
USS requests the following corrections:

(d) The Permittee shall submit a notification <u>*of*</u> ~~*or*~~ *compliance status in accordance with 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7840(e).*

Response to Comment 205

See IDEM's Response to Comment 203.

Comment 206

Section D.8, Facility Description
USS requests the following corrections:

(a) *Two (2) Stations, identified as No. 1 and No. 2, Hot Metal Transfer and Desulfurization Stations. The Delsulfurization Stations were ~~(~~originally constructed in 1981~~)~~ and the Hot Metal Transfer Stations were ~~(~~originally constructed in 1965~~)~~, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer ~~Stations~~ SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100, ~~equipped with a leak detection system, exhausting through stack SS6100~~. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.*

(b) *One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of ~~63~~ 80 tons per hour. Emissions are controlled by No.1 ~~2~~, No. 2 ~~3~~ and No. 3 ~~4~~ bag houses SS3058, SS3059, and SS3053, ~~all exhausting~~ Nos.1 and 2 exhaust inside the building and No. 3 discharges through stack SS6056.*

(c) *Basic Oxygen Process (BOP) ~~Furnace operations~~ Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.*

(f) *One (1) Slingot Moulding Station, including the casting of bottom-poured steel ingots, identified as ~~SSST0226~~ SSMS0227, constructed in 1965, exhausting to the roof monitor SS6637.*

(g) *Nine (9) natural gas fired Ladle Preheaters and Dryers identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructedin1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as ~~SSLP0229~~ SSLD0230, exhausting through Roof Monitor SS6637.*

(h) *One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of ~~445~~ 275 tons per hour. Emissions exhaust through Roof Monitor ~~SS6638~~ SC6638.*

(j) *One emergency slag skimming station with a maximum capacity of 456 tons per hour with emissions ducted to the Hot Metal Transfer Station and Desulfurization/Skimming Stations Baghouse SS3100.*

Response to Comment 206

Condition A.3 and Section D.8 description box are revised as follows:

(a) Two (2) Stations, identified as No. 1 and No. 2, **Hot Metal Transfer and** Desulfurization Stations. **The Desulfurization Stations were** ~~(~~originally constructed in 1981~~)~~ and **the** Hot Metal Transfer Stations **were** ~~(~~originally constructed in 1965~~)~~, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer ~~Stations~~ SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100, ~~equipped with a leak detection system, exhausting through stack SS6100~~. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

(b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of ~~63~~ **80** tons per hour. Emissions are controlled by No.**1** ~~2~~, No. **2** ~~3~~ and No. **3** ~~4~~ bag houses SS3058, SS3059, and SS3053, ~~all exhausting~~ **Nos.1 and 2 exhaust** inside the building **and No. 3 discharges through stack SS6056.**

(c) Basic Oxygen Process (BOP) ~~Furnace operations~~ **Vessels**, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by **open combustion hoods and** an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

(f) One (1) Slingot **Moulding** Station, including the casting of bottom-poured steel ingots, identified as ~~SSST0226~~ **SSMS0227**, constructed in 1965, exhausting to the roof monitor SS6637.

(g) Nine (9) natural gas fired Ladle Preheaters and Dryers identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructedin1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as ~~SSLP0229~~ **SSLD0230**, exhausting through Roof Monitor SS6637.

(h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of ~~445~~ **275** tons per hour. Emissions exhaust through Roof Monitor ~~SS6638~~ **SC6638**.

(j) One emergency slag skimming station with a maximum capacity of 456 tons per hour with emissions ducted to the Hot Metal Transfer Station and Desulfurization/Skimming Stations Baghouse SS3100.

Explanation: Various connections to this process description have been provided and added. These is no stack for the HMD baghouse, it is direct discharge.

Comment 207

Section D.8.1, Item (a)
USS requests the following corrections:

> *(a) The provisions of 40 CFR 63m Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source, No.1 BOP Shop, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee shall comply with these General Provision requirements on and after May ~~20, 2003~~ 22, 2006.*

Explanation: The date provided was for new sources.

Response to Comment 207

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP language from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

D.8.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (HAPs): [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source**s**, No.1 BOP Shop **including the BOP Furnace**, **and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, ladle metallurgy**, **and roof monitoring**, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. ~~The Permittee shall comply with General Provisions requirements on and after May 20, 2003.~~

~~(b) Since the applicable requirements associated with the compliance options for the affected source are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition, except as otherwise provided in this condition. The permit shield applies to Condition D.8.23, National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing -- Emission Limitations for Basic Oxygen Process Furnace [40 CFR 63, Subpart FFFFF].~~

Comment 208

Section D.8.2, Item (d)-(h)
USS requests the following corrections:

> *(d) The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASbell/OB Lancing Stations and roof monitor on or after May 22, 2006.*
>
> *(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 1 BOP Shop and required capture and control equipment on or after May 22, 2006.*
>
> *(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or*

malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b) on or after May 22, 2006.

(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 1 BOP Shop and required capture and control equipment on or after May 22, 2006.

(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 1 BOP Shop and required capture and control equipment on or after May 22, 2006.

Explanation: Clarification of applicability date.

Response to Comment 208

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general emissions limitations from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable emissions limitations associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Process Furnace (BOPF) Shops [40 CFR 63, Subpart FFFFF]~~

(a) ~~The provisions of 40 CFR 63, Subpart FFFFF (National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing) apply to the affected sources. A copy of this rule is available on the US EPA Toxics Website at http://www.epa.gov/ttn/atw/eparules.html. The Permittee must comply with these requirements on and after May 22, 2006.~~

(b) ~~Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph(a) of this condition.~~

(c) ~~Terminology used in this section is defined in the CAA, 40 CFR 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

(d) ~~The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASbell/OB Lancing Stations and roof monitor.~~

~~(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 1 BOP Shop and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b).~~

~~(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to~~

~~the No. 1 BOP Shop and required capture and control equipment.~~

~~(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 1 BOP Shop and required capture and control equipment.~~

Comment 209

Section D.8.3
USS requests the following corrections:

Pursuant to 326 IAC 6-1-10.1(d)(36), PM_{10} emissions from the No. 1 Basic Oxygen Process ~~Furnace 1~~ Shop operations shall comply with the following:

Explanation: Clarification of facility description.

Response to Comment 209

Condition D.8.3 is renumbered D.8.2.

To clarify the description of the facility, the permit is revised as follows:

D.8.~~3~~**2** Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions from the **No. 1** Basic Oxygen Process ~~Furnace 1~~ **Shop** operations shall comply with the following:

Comment 210

Section D.8.3, Item (a)
USS requests the following corrections:

(a) The PM_{10} emissions from the No. 1 BOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse ~~Stack SS6100~~ discharge shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 15.0 pounds per hour.

Explanation: There is no stack for this baghouse-compartment direct discharge.

Response to Comment 210

The stack designation is deleted. The permit is revised as follows:

(a) The PM_{10} emissions from the No. 1 BOP Shop Hot Metal **Transfer and** Desulfurization **Stations** Baghouse ~~Stack SS6100~~ **discharge** shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 15.0 pounds per hour.

Comment 211

Section D.8.4, Item (a)
USS requests the following corrections:
~~D.8.4 Particulate Emissions Limitations [326 IAC 6-1-2(a)]~~

~~Pursuant to 326 IAC 6-1-2(a), the particulate emissions from the roof monitors SS6636, NS6637 and SS6638 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).~~

Explanation: Roof monitors are not point sources. It is not prudent to assign emission limitations to non-point non-testable sources. Only opacity limits apply here.

Response to Comment 211

The emissions from the roof monitors are not considered "fugitive emissions" as defined under 326 IAC 2-2-1(x) and are therefore subject to the requirements of 326 IAC 6.8-1-2(a). Regardless of whether an emission unit exhausts directly to the atmosphere or indirectly through a building opening or ventilation system, it shall comply with grain loading limit of three-hundredths (0.03) grains per dry standard cubic foot (dscf). Reasonable accommodations are made with respect to compliance monitoring or testing. Compliance should be documented in the Annual Compliance Certification (ACC). The requirement of the rule is an applicable requirement and must be included in the permit. Therefore, no change has been made as a result of this comment.

Comment 212

Section D.8.5, Item (a) and (c)
USS requests the following corrections:

D.8.5 Lake County Opacity Limitations [326 IAC 6-1-10.1(e)]

Pursuant to 326 IAC 6-1-10.1(e), the visible emissions from the Number 1 Basic Oxygen Furnace operations shall comply with the following:

(a) Opacity from the Hot Metal Transfer and Desulfurization Stations baghouse Stack ~~SS6100~~ discharge shall not exceed five percent (5%) opacity, for any three (3) minute average.

(c) Opacity from the No. 1 BOP ~~Furnace Operations~~ Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed twenty percent (20%), for any six (6) minute average.

Explanation: Correction of facility description nomenclature.

Response to Comment 212

Condition D.8.5 is renumbered D.8.4.

The facility descriptions are corrected. See IDEM's review Change 18 for Particulate Rule 6-1 cite changes. The permit is revised as follows:

D.8.~~5~~ **4** Lake County Opacity Limitations [326 IAC 6.8-3-4]

Pursuant to 326 IAC 6.8-3-4, the visible emissions from the Number 1 Basic Oxygen Furnace operations shall comply with the following:

(a) Opacity from the Hot Metal **Transfer and** Desulfurization **Stations** baghouse Stack ~~SS6100~~ **discharge** shall not exceed five percent (5%) opacity, for any three (3) minute average.

(c) Opacity from the **No. 1** BOP ~~Furnace Operations~~ Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed twenty percent (20%), for any six (6) minute average.

Comment 213

Section D.8.7, Item (a)
USS requests the following corrections:

D.8.7 ~~Hot Metal Processing Facility Limitations [326 IAC 7-4-1.1]~~ Sulfur Dioxide (SO_2) Limitations Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]

Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 and terminated by the inclusion of this condition as of issuance of this permit, the Permittee shall comply with the following:

(a) The SO_2 emissions from the Nos. 1 and 2 Hot Metal ~~processing facilities No. 1 and No. 2~~ Transfer and Desulfurization Stations Baghouse as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, as applicable.

Explanation: Exact language from the order.

Section D.8.7, Item (b)
USS requests the following corrections:

(b) The SO2 emissions from the Nos. 1 and 2 Hot Metal ~~processing facilities No. 1 and No. 2~~ Transfer and Desulfurization Stations Baghouse as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

Pursuant to 326 IAC 7-4.1-20(a)(1)(M) and (b)(1), the sulfur dioxide emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 28.54 pounds per hour.

Explanation: Correction of facility description nomenclature and correction in the order.

Response to Comment 213

Condition D.8.7 is renumbered D.8.6.

Part 1 To add language from the U.S. EPA Administrative Consent Order, to correct facility descriptions as addressed in response to comment 206, the permit is revised as shown below.

Part 2 The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit as D.8.7(b). The permit is revised as shown below.

Part 3 U.S. Steel can request a letter from the US EPA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004. Reference to the administrative consent order is included in this permit to show where the federally enforceable SO_2 limits originated.

D.8.~~7~~ **6** ~~Hot Metal Processing Facility Limitations [326 IAC 7-4-1.1]~~ **Sulfur Dioxide (SO_2) Limitations Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]**

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, the

Permittee shall comply with the following:

(1) The SO_2 emissions from the **Nos. 1 and 2** Hot Metal ~~processing facilities No. 1 and No. 2~~ **Transfer and Desulfurization Stations Baghouse** as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, **as applicable**.

(2) The SO_2 emissions from the **Nos. 1 and 2** Hot Metal ~~processing facilities No. 1 and No. 2~~ **Transfer and Desulfurization Stations Baghouse** as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(M) and (b)(11), the SO_2 emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

Comment 214

Section D.8.8
USS requests the following corrections:

D.8.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and any associated control devices~~ the emissions control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 214

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this

section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the Hot Metal Desulfurization Stations, flux handling system, BOP vessels, CASbell/OB Lancing Stations continuous caster themselves because lack of proper maintenance on these facilities can result in increased emissions. Therefore the permit is not revised as result of this comment.

Condition D.8.8 is renumbered D.8.7.

D.8.~~8~~ **7** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Comment 215

Section D.8.9
USS requests the following corrections:

> *The Permittee shall comply with the following on or after May 22, 2006. unless otherwise required under 40 CFR 63, Subpart FFFFF.*

Explanation: Clarification of applicability date.

Response to Comment 215

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP compliance requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006.

Comment 216

Section D.8.9, Item (a)
USS requests the following corrections:

> *(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.~~2~~ 8.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3.*

Explanation: Permit section reference correction.

Response to Comment 216

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP compliance requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.16 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.9 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for BOPF Shops [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]~~

~~(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.8.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3.~~

~~(b) The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No.1 BOP Shop in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 1 BOP Shop, in accordance with 40 CFR 63.7826.~~

~~(d) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR 63, Subpart FFFFF, in accordance with 40 CFR 63.7832.~~

~~(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 1 BOP Shop and required capture and control equipment in accordance with 40 CFR 63.7833.~~

~~(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 1 BOP Shop and required capture and control equipment in accordance with 40 CFR 63.7834.~~

Comment 217

Section D.8.10
USS requests the following corrections:

The Permittee shall comply with the following on or after May 22, 2006 unless otherwise required under 40 CFR 63, Subpart FFFFF.

Explanation: Clarification of applicability date.

Section D.8.10, Item (c)
USS requests the following corrections:

(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits ~~for particulate matter for the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASBell/OB Lancing Stations and roof monitor~~ that apply to the No. 1 BOP Shop.

Explanation: NESHAP specifies applicability should be stated in general.

Section D.8.10, Item (d)

USS requests the following corrections:

(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits ~~for the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASBell/OB Lancing Stations and roof monitor~~ that apply to the No. 1 BOP Shop.

Explanation: NESHAP specifies applicability should be stated in general.

Response to Comment 217

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general testing requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable testing requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.10 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing -Testing Requirements for BOPF Shops [40 CFR 63.7820 through 63.7824]~~

~~(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 1 BOP Shop, in accordance with 40 CFR 63.7820.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 1 BOP Shop, in accordance with 40 CFR 63.7821.~~

~~(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASBell/OB Lancing Stations and roof monitor.~~

~~(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the Hot Metal Desulfurization Stations, Hot Metal Transfer Stations, slag skimming units, BOPF vessels, CASBell/OB Lancing Stations and roof monitor.~~

~~(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 1 BOP Shop and required capture and control equipment.~~

Comment 218

Section D.8.11
USS requests the following corrections:

D.8.11 Testing Requirements <u>for Particulate Matter</u> [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Explanation: Providing clarification as to which pollutant this section applies to.

Section D.8.11, Item (a)
USS requests the following corrections:

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing <u>for non-condensible (front half)</u> on the No. 1 BOP Desulfurization Baghouse ~~Stack SS6100,~~ <u>discharge</u> using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Explanation: This is because condensable PM at this location is believed to be negligible and it has been modeled as such for the latest revision of the Lake County PM_{10} rule. Also there is no stack for the baghouse compartment direct discharge.

Section D.8.11, Item (b)
USS requests the following corrections:

> (b) *Within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing for non-condensible (front half on the No. 1 BOP Gas Cleaning Systems Stacks SS6102 and SS6103 using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every ~~two and one-half (2 ½)~~ five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*

Explanation: Condensable PM at this location is believed to be negligible and it has been modeled as such for the latest revision of the Lake County PM_{10} rule. USS also requests that the frequency be reduced to once per five years.

Response to comment 218

Condition D.8.11 is renumbered Condition D.8.8.

Part 1 The specific pollutant testing is added to the condition name to distinguish what pollutant is to be tested.

Part 2 The equipment name changes are addressed in IDEM response to comment 206.

Part 3 The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4. To clarify which testing method is required to measure PM_{10} emissions from the No. 1 BOP Desulfurization Baghouse discharge, and No. 1-BOP Gas Cleaning System stacks. The permit is revised as follows:

D.8.~~11~~ **8 Particulate Matter** Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing on the No. 1 BOP Desulfurization Baghouse ~~Stack SS6100,~~ **discharge** using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.8.3, the Permittee shall perform PM_{10} testing on the No. 1 BOP Gas Cleaning Systems Stacks SS6102 and SS6103 **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods

approved by the Commissioner. This test shall be repeated at least once every **five (5)** years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 219

Section D.8.12
USS requests the following corrections:

D.8.12 Testing Requirements for Sulfur Dioxide

Explanation: Providing clarification as to which pollutant this section applies to.

Section D.8.12(a)
USS requests the following corrections:

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and terminated by the inclusion of this condition as of issuance of this permit. Within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization station baghouse ~~exhaust Stack SS6100~~ discharge utilizing ~~a test method approved by the Commissioner~~ the test protocol submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to show compliance with condition D.8.7(a), ~~in accordance with Section C - Performance Testing~~. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

Explanation: Clarification that the consent order is fulfilled and terminated as of this permit issuance. Also, there is no stack for the baghouse-compartment direct discharge. This testing is to be done in accordance with the protocol submitted as part of the EPA Administrative Order.

Section D.8.12(b)
USS requests the following corrections:

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and terminated by the inclusion of this condition as of issuance of this permit. Within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization station baghouse ~~exhaust Stack SS6100~~ discharge utilizing ~~a test method approved by the Commissioner~~ the test protocol submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to show compliance with condition D.8.7(b) ~~in accordance with Section C - Performance Testing~~ during the desulfurization reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

Explanation: Clarification that the consent order is fulfilled and terminated as of this permit issuance. Also, there is no stack for the baghouse-compartment direct discharge. This testing is to be done in accordance with the protocol submitted as part of the EPA Administrative Order.

Section D.8.12(c)
USS requests the following corrections:

> *(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and terminated by the inclusion of this condition as of issuance of this permit demonstration of compliance by performance testing per D.8.12(b) above shall not fulfill the compliance demonstration requirement for D.8.12(a).*

Explanation: Clarification that the consent order is fulfilled and terminated as of this permit issuance.

Response to Comment 219

Condition D.8.12 is renumbered Condition D.8.9.

Part 1 The specific pollutant testing is added to the condition name to distinguish what pollutant is to be tested.

Part 2 U.S. Steel can request a letter from the US EPA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004. Reference to the agreed order is included in this permit to show where the federally enforceable SO_2 testing requirements originated. Therefore, the permit is not revised as a result of this comment.

Part 3 To clarify that testing is to be performed according to the test protocol that was required by the Consent Order and show the baghouse has no stack, the permit is revised as follows:

D.8.~~12~~**9Sulfur Dioxide** Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization **station baghouse** ~~exhaust Stack SS6100~~ **discharge** utilizing ~~a test method approved by the Commissioner~~ **the test method 40 CFR 60, Appendix A Method 6C or other methods as submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004**, to show compliance with condition D.8.7(a), ~~in accordance with Section C – Performance Testing~~. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization **station baghouse** ~~exhaust Stack SS6100~~ **discharge** utilizing ~~a test method approved by the Commissioner~~ **the test method 40 CFR 60, Appendix A Method 6C or other methods as submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004,** to ~~show~~ **demonstrate** compliance with condition D.8.7(b) ~~in accordance with Section C – Performance Testing~~ during the desulfurization reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004

demonstration of compliance by performance testing per D.8.~~12~~ **9**(b) above shall not fulfill the compliance demonstration requirement for D.8.~~12~~ **9**(a).

Comment 220

Section D.8.14
USS requests the following corrections:

~~*D.8.14 Visible Emissions Notations*~~

~~*(a) Visible emission notations of the BOP Operations Gas Cleaning System stacks SS6102 and SS6103, and CASBell/OB Lancing Station Baghouse stack SS6104, shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.*~~

~~*(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.*~~

~~*(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.*~~

~~*(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.*~~

~~*(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*~~

Explanation: Visible emission notations are over burdensome for this facility. The amount of particulate data monitored and recorded in accordance with the CCP (and with the future MACT) is more than sufficient to ensure continuous compliance with PM.

Response to Comment 220

Condition D.8.14 is renumbered D.8.11.

326 IAC 6.8-8-7(A) requires a Continuous Compliance Plans (CCP) for baghouses to include a description of any visible emissions evaluation program. Item (f) has been added to address this issue.

Upon further review, IDEM has determined that once per day visible emission notations is generally sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the permit is revised as shown below.

Compliance monitoring conditions such as the requirement to perform visible emission notations are necessary to demonstrate continuous compliance with the permit requirements. Visible emission notations are used to indicate compliance with 326 IAC 5-1 and the particulate matter limits pursuant to 326 IAC 6.8-10-3.

D.8.~~14~~**11** Visible Emissions Notations

(a) Visible emission notations of the BOP Operations Gas Cleaning System stacks SS6102

and SS6103, and CASBell/OB Lancing Station Baghouse stack SS6104, shall be performed once per ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed**, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances**. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan – Preparation, Implementation, Records and Reports~~ **Response to Excursions or Exceedances** shall be considered a deviation from this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C - Continuous Compliance Plan.

Comment 221

Section D.8.15 (a)-(c)
USS requests the following corrections:

D.8.15 Parametric Monitoring

(a) The Permittee shall record the total static pressure drop across the CASBell/OB Lancing Stations baghouse SS3105 used in conjunction with the CASBell/OB Lancing Stations, at least once per ~~shift~~ day when the CASBell/OB Lancing Stations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of ~~3.0 and 6.0~~ 2 to 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.

(b) The Permittee shall record the total static pressure drop across the venture floats and the scrubber supply water flow rate of the scrubbers used in conjunction with the three (3) BOP vessels M, E, and D, at least once per shift when the three (3) BOP vessels M, E, and D units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the normal range of ~~70.0 and 75.0~~ 50 to 90 inches of water or the flow rate of the scrubbers is outside the range of ~~3000 and 4500~~ 2,500 to 4,500 gallons per minute (gpm) or ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response

Plan - Preparation, Implementation, Records, and Reports. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.

(c) The instruments used for determining the pressure and flow rate shall comply with Section C.15 - Pressure Gauges and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Explanation: USS requests the frequency of monitoring be reduced to daily This is in addition to the monitoring requirements of the CCP and the upcoming MACT, is more than sufficient to maintain continuous compliance with PM. Other corrections have been provided.

Response to Comment 221

Condition D.8.15 is renumbered Condition D.8.12.

Upon further review, IDEM has determined that once per day monitoring of the control device is generally sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.

The requirement for Continuous Compliance Plan (CCP) is listed in Section C Entire Source. A reference to this Section C condition is added to the permit to clarify a CCP is required for the particulate control device in this D Section. Therefore, the permit is revised as shown below:

Item (e) see IDEM's Response to Comment 11.

Since the bag leak detection system is not required prior to the new MACT requirements parametric monitoring of the Hot Metal Transfer and Desulfurization Baghouse SS3100 is required to demonstrate continuous compliance. Therefore, the permit is revised as follows:

D.8.~~13~~**12** Parametric Monitoring

(a) The Permittee shall record the ~~total static~~ pressure drop across the CASBell/OB Lancing Stations baghouse SS3105 used in conjunction with the CASBell/OB Lancing Stations, at least once per ~~shift~~ **day** when the CASBell/OB Lancing Stations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of ~~3.0 and 6.0~~ **2.0 to 10.0** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**., shall be considered a deviation of this permit.

(b) The Permittee shall record the ~~total static~~ pressure drop and flow rate of the scrubbers used in conjunction with the three (3) BOP vessels M, E, and D, at least once per ~~shift~~ **day** when the three (3) BOP vessels M, E, and D units are in operation. When for any one reading, the pressure drop across the scrubbers is outside the normal range of ~~70.0 and 75.0~~ **50.0 to 90.0** inches of water or the flow rate of the scrubbers is outside the range of ~~3000 and 4500~~ **2500 to 4500** gallons per minute (gpm) or ranges established

during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**., shall be considered a deviation of this permit.

(c) The Permittee shall record the pressure drop across the Hot Metal Transfer and Desulfurization Baghouse SS3100 used in conjunction with the No. 1 BOP Hot Metal Desulfurization stations, at least once per day when the No. 1 BOP Hot Metal Desulfurization Stations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2 to 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances.. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

(d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C- Continuous Compliance Plan.

~~(c)~~ **(e)** The instruments used for determining the pressure and flow rate shall comply with Section C- ~~Pressure Gauge~~ **Instrument** Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Comment 222

Section D.8.16
USS requests the following corrections:

D.8.16 ~~*Bag Leak Detection System*~~ *National Emission Standards for Hazardous Air Pollutants (NESHAP) Integrated Iron and Steel Manufacturing- Compliance Monitoring Requirements [40 CFR 63.7831 through 63.7824]*

~~*The No. 1 BOP Hot Metal Desulfurization Baghouse SS3100 Bag Leak Detection System shall meet the following criteria:*~~

~~*(a) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 0.0052 grains per actual cubic foot or less.*~~

~~*(b) The bag leak detection system sensor must provide output of relative particulate matter loading.*~~

~~*(c) The bag leak detection system must be equipped with an alarm system that will alarm when an increase in relative particulate loading is detected over a preset level established or verified during a stack test.*~~

~~*(d) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. Environmental Protection Agency or, in absence of such written guidance, the manufacturer's written specifications and*~~

~~*recommendations for installation, operation and adjustment of the system.*~~

~~*(e) The initial adjustment of the system shall, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time.*~~

~~*(f) In no event shall the sensitivity be increased by more than 100 percent or decreased by more than 50 percent over a 365 day period unless such adjustment follows a complete baghouse inspection, which demonstrates the baghouse is in good operating condition.*~~

~~*(g) The bag detector system sensors must be inspected monthly and build-up must be removed from probe and insulator.*~~

~~*(h) The Permittee shall perform monthly QA checks including response tests and electronic drifts checks and opacity readings to confirm the operation of the baghouse is in order.*~~

~~*(i) The bag leak detector must be installed downstream of the baghouse.*~~

~~*(j) In the event of a bag leak detection system alarm is triggered, the Permittee shall follow steps in D.8.18 of this permit.*~~

~~*(k) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when excess emissions are observed. Failure to take response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records and Reports, shall be considered a deviation of this permit.*~~

The Permittee shall comply with the following compliance monitoring requirements on or after May 22, 2006 unless otherwise required under 40 CFR 63, Subpart FFFFF.

(a) Pursuant to 40 CFR 63.7800, 63.7830 and 63.7831, the Permittee shall install, maintain and operate a bag leak detection in each baghouse used to meet any particulate emission limit that applies in accordance with 40 CFR 63, FFFFF.

Explanation: Bag leak detection systems are required under the new MACT 40 CFR 63, Subpart FFFFF. It is not required under current regulation. The heading for this condition and language is changed to reflect future requirements under the MACT.

Response to Comment 222

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP compliance monitoring requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance monitoring requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.16 Bag Leak Detection System~~

~~The No. 1 BOP Hot Metal Desulfurization Baghouse SS3100 Bag Leak Detection System shall meet the following criteria:~~

~~(a) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 0.0052 grains per actual cubic foot or less.~~

~~(b) The bag leak detection system sensor must provide output of relative particulate matter loading.~~

~~(c) The bag leak detection system must be equipped with an alarm system that will alarm when an increase in relative particulate loading is detected over a preset level established or verified during a stack test.~~

~~(d) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. Environmental Protection Agency or, in absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation and adjustment of the system.~~

~~(e) The initial adjustment of the system shall, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time.~~

~~(f) In no event shall the sensitivity be increased by more than 100 percent or decreased by more than 50 percent over a 365 day period unless such adjustment follows a complete baghouse inspection, which demonstrates the baghouse is in good operating condition.~~

~~(g) The bag detector system sensors must be inspected monthly and build-up must be removed from probe and insulator.~~

~~(h) The Permittee shall perform monthly QA checks including response tests and electronic drifts checks and opacity readings to confirm the operation of the baghouse is in order.~~

~~(i) The bag leak detector must be installed downstream of the baghouse.~~

~~(j) In the event of a bag leak detection system alarm is triggered, the Permittee shall follow steps in D.8.18 of this permit.~~

~~(k) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when excess emissions are observed. Failure to take response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records and Reports, shall be considered a deviation of this permit.~~

Comment 223

Section D.8.17
USS requests the following corrections:

> *An inspection shall be performed each calendar quarter ~~of the bags~~ in the Hot Metal Transfer and Desulfurization Baghouse and CASBell/OB Lancing Stations Baghouse SS3105. Inspections required by this condition shall not be performed in consecutive months. All known defective bags shall be replaced.*

Explanation: Quarterly inspections of the baghouse and its systems are performed in accordance with the CCP. Problems with bags are normally indicated through means other than a physical bag inspection.

Response to Comment 223

> Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan.

Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections have been removed.

~~D.8.17 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of the bags in the CASBell/OB Lancing Stations Baghouse SS3105. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

Comment 224

Section D.8.18, Item (a)
USS requests the following corrections:

(a) For multi-compartment units, the affected compartments will be shut down ~~immediately~~ as soon as practicable to ensure safety of personnel and equipment until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Explanation: Safety should be considered for shutdowns.

Response to Comment 224

Paragraph (a) of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.8.10 requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

Paragraph (b) of this condition has been deleted. IDEM received an email on October 17, 2005 from US Steel-Gary Works stating no single compartment baghouses are in service at the source. Therefore, the permit is revised as follows:

~~D.8.18 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of~~

~~the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

D.8.~~13~~**10** Particulate Matter Control **[326 IAC 2-7-6(6)]**

(a) **Except as otherwise provided by statue, rule or this permit**, the control devices listed below shall be in operation for particulate emissions control at all times the associated process is in operation. The control devices are as follows:

~~(a)~~ **(1)**The Hot Metal Desulfurization/Skimming Baghouse SS3100,

~~(b)~~ **(2)**Flux Handling System Baghouses SS3053, SS3058 and SS3059,

~~(c)~~ **(3)**BOP Gas Cleaning systems SS3103 and SS3104; and

~~(d)~~ **(4)**CASBell/OB Lancing Station Baghouse SS3105.

(b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

Comment 225

Section D.8.19
USS requests the following corrections:

An inspection shall be performed each calendar quarter of the scrubbers in the Number 1 BOP ~~gas cleaning~~ Shop Gas Cleaning Systems SS3103 and SS3104. Inspections required by this condition shall not be performed in consecutive months.

Explanation: Correction of nomenclature.

Response to Comment 225

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

~~D.8.19 Scrubber Inspections~~

~~An inspection shall be performed each calendar quarter of the scrubbers in the Number 1 BOP Shop Gas Cleaning Systems SS3103 and SS3104. Inspections required by this condition shall not be performed in consecutive months.~~

Comment 226

Section D.8.21
USS requests the following corrections:

The permittee shall comply with the following on or after May 22, 2006 unless otherwise required under 40 CFR 63, Subpart FFFFF.

Explanation: Clarification of applicability date.

Response to Comment 226

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general record keeping requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable record keeping requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.21 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for BOPF Shops [40 CFR 63.7810(b)][40 CFR 63.7]~~

~~(a) During the period between May 22, 2006 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, the Permittee shall maintain a log detailing the operation and maintenance of the No. 1 BOP Shop control equipment in accordance with 40 CFR 63.7810(b).~~

~~(b) The Permittee shall keep the records required by 40 CFR 63.7842(a).~~

~~(c) If a Continuous Opacity Monitoring System (COMS) is used to comply with an opacity standard, the Permittee shall keep the records specified in 40 CFR 63.7842(b).~~

~~(d) The Permittee shall keep the records required in 40 CFR 63.6(h)(6) for visible observations in accordance with 40 CFR 63.7842(c).~~

~~(e) The Permittee shall keep the records required in 40 CFR 63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance~~

~~requirement that applies to the No. 1 BOP Shop in 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, FFFFF in accordance with 40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

Comment 227

Section D.8.22, Item (a)
USS requests the following corrections:

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and terminated by the inclusion of this condition as of issuance of this permit, and in order to document compliance with Condition D.8.6 7, the Permittee shall keep records of the monthly hot metal throughput for the No.1 and No. 2 Hot Metal Transfer and Desulfurization Stations.

Explanation: Clarification that the consent order is fulfilled and terminated as of this permit issuance. There is also a correction of a condition reference.

Response to Comment 227

Condition D.8.22(a) is renumbered Condition D.8.14(a).

Part 1 To clarify the equipment descriptions, the permit is revised as follows:
D.8.14 General Record Keeping Requirements
(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and in order to document compliance with Condition D.8.6, the Permittee shall keep records of the monthly hot metal throughput for the No.1 and No. 2 Hot Metal **Transfer and** Desulfurization Stations.

Part 2 U.S. Steel can request a letter from the US EPA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004. Reference to the agreed order is included in this permit to show where the federally enforceable SO_2 record keeping requirements originated. Therefore, the permit is not revised as a result of this comment.

Comment 228

Section D.8.22, Item (d)
USS requests the following corrections:

~~*(d) To document compliance with Visible Emission Notations, Condition D.8.14, the Permittee shall maintain records of once per shift visible emission notations of the Hot Metal Desulfurization Baghouse Stack SS6101, the BOP Gas Cleaning System Stacks SS6102 and SS6103 and the CASBoll/OB Lancing Station Baghouse Stacks SS6104 exhausts.*~~

Explanation: We requested Section D.8.14 to be deleted.

Response to Comment 228

Condition D.8.22(d) is renumbered D.8.14(b).
The visible emissions requirement is not deleted from the permit. Therefore the permit is not revised as a

result of this comment.

D.8.~~15~~**14** General Record Keeping Requirements

~~(d)~~ **(b)** To document compliance with Visible Emission Notations, Condition D.8.~~14~~ **11**, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the Hot Metal Desulfurization Baghouse Stack SS6101, the BOP Gas Cleaning System Stacks SS6102 and SS6103 and the CASBell/OB Lancing Station Baghouse Stacks SS6104 exhausts.

Comment 229

Section D.8.22, Item (e)
USS requests the following corrections:

(e) To document compliance with Condition D.8.15 ~~pressure drop~~, parametric monitoring CASBell/OB Lancing Station Baghouse SS3105 total static pressure drop, and No.1 BOP Shop Gas Cleaning System scrubbers, pressure drop across the venturi throats and scrubber supply water flow rate during normal operation shall be recorded.

Explanation: Adding clarification statements or language for this condition.

Response to Comment 229

Condition D.8.22(e), is renumbered D.8.14(c).

To clarify which records need to maintained, the permit is revised as follows:

~~(e)~~ **(c)** To document compliance with Condition D.8.~~15~~ **12**~~pressure drop~~, **the Permittee shall maintain records of the parametric monitoring** CASBell/OB Lancing Station Baghouse SS3105 **and Hot Metal Transfer and Desulfurization Baghouse** pressure drop, and No.1 BOP **Shop** Gas Cleaning System scrubbers, pressure drop **across the venturi throats** and **scrubber supply water** flow rate **once per day** during normal operation.

Comment 230

Section D.8.22, Item (f)
USS requests the following corrections:

(f) To document compliance with Conditions ~~D.8.16~~, D.8.17 and D.8.19, the Permittee shall maintain records of the results of the required inspections.

Explanation: Condition D.8.16 is a NESHAP/MACT requirement, refer to Condition D.8.21.

Response to Comment 230

Since the requirements to inspect the control devices in Conditions D.8.17 and D.8.19 are deleted from this permit the recordkeeping requirements are also deleted. Therefore the permit is revised as follows:

~~(f) To document compliance with Conditions D.8.16, D.8.17 and D.8.19, the Permittee shall maintain records of the results of the required inspections.~~

Comment 231

Section D.8.22, Item (g)
USS requests the following corrections:

> *(g) To document compliance with Condition D.8.8, the Permittee shall maintain records of any ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.*

Explanation: The term "additional" is not appropriate because all inspections under PMP are required to be documented.

Response to Comment 231

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

> ~~(g) To document compliance with Condition D.8.8, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~
>
> ~~(h)~~ **(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 232

Section D.8.23
USS requests the following corrections:

> *The Permittee shall comply with the following on or after May 22, 2006 unless otherwise required under 40 CFR 63, FFFFF.*

Explanation: Clarification of applicability date.

Section D.8.23, Item (a)
USS requests the following corrections:

> *(a) The Permittee shall report each deviation ~~in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit~~ semiannually in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).*

Explanation: NESHAP requires semiannual deviation reports.

Response to Comment 232

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general reporting requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable reporting requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15 (See IDEM Response to Comment 233), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.23 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Reporting Requirements for BOPF Shops [40CFR 63.7835] [40 CFR 63.7640]]~~

~~(a) The Permittee shall report each deviation in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).~~

~~(b) The Permittee shall submit a notification or compliance status in accordance with 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7840(e).~~

~~(1) For each initial compliance demonstration that does not include a performance test, the Permittee shall submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.~~

~~(2) For each initial compliance demonstration that does include a performance test, the Permittee shall submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2).~~

~~(3) The notification of compliance status shall be submitted to:~~

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251~~

~~The notification of compliance status requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(c) The Permittee shall submit semiannual compliance reports in accordance with 40 CFR 63.7841(a) and (b).~~

~~(f) If a start-up, shutdown or malfunction occurred during the semiannual reporting period that was not consistent with the start-up, shutdown or malfunction plan, the Permittee shall submit an immediate start-up, shutdown and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

Comment 233

Section D.8.24, Item (b)
USS requests the following corrections:

(b) The significant permit modification application shall be submitted no later than ~~nine (9) months prior to May 22, 2006~~ August 22, 2005 .

Explanation: The date has been changed to be consistent with language in Section D's.

Response to Comment 233

Condition D.8.24 is renumbered D.8.15.

After further review IDEM has removed the requirement to submit a significant permit modification to include the specific 40 CFR 63 Subpart FFFFF NESHAP requirements from this condition and added the specific requirements associated with the No. 1 BOP Shop in the renumbered Condition D.8.15, because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.8.24 Requirements to Submit a Significant Permit Application [326 IAC 2-7-12] [326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM-OAQ to include information from the notification of compliance status in the Part 70 permit.~~

~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient to IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart FFFFF, a description of the affected source and activities subject to the standard and a description of how the Permittee will meet the applicable requirements of the standard.~~

~~(b) The significant permit modification application shall be submitted no later than nine (9) months prior to May 22, 2006.~~

~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

D.8.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you no later than May 22, 2006.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the average opacity of emissions for each 6-minute period at or below the site-specific opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values established during the initial performance test.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next

scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection

system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every

2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter,

record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section.

(1) Using the continuous parameter monitoring system (CPMS) required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(c) For an electrostatic precipitator subject to the operating limit in §63.7790(b)(3) for opacity, you must establish a site-specific operating limit according to the procedures in paragraphs (c)(1) through (3) of this section.

(1) Using the continuous opacity monitoring system (COMS) required in §63.7830(d), measure and record the opacity of emissions from each control device stack during each run of the particulate matter performance test.

(2) Compute and record the 6-minute block average opacity from 36 or more data points equally spaced over each 6-minute period during the test runs.

(3) Determine, based on the 6-minute block averages, the opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values.

(d) You may change the operating limits for a capture system, venturi scrubber, or electrostatic precipitator if you meet the requirements in paragraphs (d)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

(e) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (e)(1) through (3) of this section.

(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, “n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples,” (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW–846 “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.” Record the sampling date and time, oil content values, and sinter produced (tons/day).

(2) Continue the sampling and analysis procedure for 30 consecutive days.

(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this

subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b); and

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, if applicable, detailed descriptions of the procedures you use for corrective action for baghouses;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel production cycle) according to the requirements in §63.7832.

(b) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(3) Check the compressed air supply for pulse-jet baghouses each day.

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the

baghouse interior for air leaks.

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through (6) of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as

applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) and (2) of this section:

(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.

(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by

completing the requirements of paragraphs (d)(1) through (3) of this section:

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through (3) of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance

with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause,

if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR

71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to

produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to

transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process

furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
9. Each BOPF at a new or existing shop.	**a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\;** **b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle for an existing BOPF shop or 0.01 gr/dscf during the steel production cycle for a new BOPF shop \2\; and** **c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.**

10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	**You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.**
11. Each ladle metallurgy operation at a new or existing BOPF shop.	**You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.**
12. Each roof monitoring at an existing BOPF shop.	**You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).**

\1\ This limit applies if the cooler is vented to the same control device as the discharge end.
\2\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	**a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop;** **b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and** **c. The average concentration of particulate matter from a control device applied solely**

	to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	**The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.**
11. Each ladle metallurgy operation at a new or existing BOPF shop	**The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.**
12. Each roof monitor at an existing BOPF shop.	**The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).**

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	**a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below 0.03 gr/dscf;** **b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop;** **c. Maintaining emissions of particulate matter from a control device applied solely**

	to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	**a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and** **b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).**
11. Each ladle metallurgy operation at a new or existing BOPF shop	**a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and** **b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).**
12. Each roof monitor at an existing BOPF shop.	**a. Maintaining the opacity of secondary emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and** **b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c),	Compliance with Standards	Yes.	

(d), (e) (f), (g), (h)(2)(ii)-(h)(9)	**and Maintenance Requirements.**		
§ 63.6(h)(2)(i).	**Determining Compliance with Opacity and VE Standards**	**No.**	**Subpart FFFFF specifies Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.**
§ 63.7(a)(1)-(2)	**Applicability and Performance Test Dates**	**No**	**Subpart FFFFF and specifies performance test applicability and dates.**
§ 63.7(a)(3), (b), (c)-(h).	**Performance Testing Requirements.**	**Yes**	
§ 63.8(a)(1)-(a)(3), (b), (c)(1)-(3), (c)(4)(i)-(e), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). (ii), (c)(5) and (6),	**Monitoring Requirements**	**Yes**	**CMS requirements in § 63.8(c)(4) (i)-(d), and (e) apply only to COMS for electrostatic precipitators.**
§ 63.8(a)(4).	**Additional Monitoring Requirements for Control Devices in § 63.11.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.8(c)(4)	**Continuous Monitoring System Requirements.**	**No.**	**Subpart FFFFF specifies requirements for operation of CMS.**
§ 63.8(f)(6).	**RATA Alternative**	**No.**	
§ 63.9	**Notification Requirements.**	**Yes.**	**Additional notifications for CMS in § 63.9(g) apply to COMS for electrostatic precipitators.**
§ 63.9(g)(5).	**DATA Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	**Recordkeeping and Reporting Requirements.**	**Yes**	**Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for electrostatic precipitators.**
§ 63.10(b)(2)(xiii)	**CMS Records for RATA Alternative**	**No.**	
§ 63.10(c)(7)-(8)	**Records of Excess Emissions and Parameter Monitoring Exceedances for CMS**	**No.**	**Subpart FFFFF specifies record requirements.**
§ 63.11	**Control Device Requirements.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.12.	**State Authority and Delegations**	**Yes**	
§ 63.13-§ 63.15	**Addresses, Incorporation by**	**Yes**	

	Reference, Availability of Information.		

Comment 234

Section D.9 Facility Description
USS requests the following corrections:

(a) *Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included ~~Emissions are controlled by a baghouse NS3115, exhausting through stack NS6144 and fugitive emissions exhausting through the roof monitor NS6631.~~*

~~(b)~~ *Two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115, discharging ~~exhausting~~ through ~~stack~~ NS6144 and the fugitive emissions through roof monitor NS6631.*

(c) *Q-Basic Oxygen Process (BOP) vessels ~~operations~~, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, ~~each~~ with a maximum capacity of 250 ~~500~~ tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.*

(d) *Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans ~~and two (2) whirl vanes~~ exhausting to Stacks NS6124 and NS6125.*

(e) *Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627and NS6628 recycling captured material ~~returning emissions~~ back to the process; One (1) North Flux Handling Baghouse at116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.*

(f) *Three (3) Ladle Metallurgical Facilities, LMF1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume e~~E~~missions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling*

emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

(g) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Carbon monoxide and other combustible gas e ~~E~~missions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.

(h) One (1) Slag Conditioning Station servicing the RH Vacuum Degasser, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.

(1) PM_{10} emissions from the station are controlled by a baghouse exhausting through Stacks S-1 through S-6 and recycling captured material back to the process.

(2) PM_{10} emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the RH Vacuum Degasser Slag Conditioning Baghouse NS3207 No~~. 1 Hot fume exhaust baghouse NS3135~~, exhausting through Stack NS6636~~6146~~.

(i) ~~One (1) Lime Dumping Station identified as NSFH0249,~~ O ~~o~~ne (1) Daytank Lime Silo at the lime dumping station, identified as NSDS0250 ~~and one (1) Desulfurization Lime and one (1) Mag Container identified as NSDS0245~~, constructed in 1971. Emissions are controlled by the Daytank Lime Silo baghouses NS3106 ~~NS3122, NS3206 and NS3111~~, exhausting through the stack~~s~~ ~~NS6121~~, NS6629~~, and NS6624~~.

(j) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 800 ~~600~~ tons per hour combined. Lines A and B were constructed in1986. Line C was constructed in 1991. Emissions from the continuous casters go ~~exhaust~~ to the Roof Monitor NC6635. ~~Emissions from Line C are discharged back to the slab spray water area for control~~.

(k) Fourteen (14) natural gas fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions ~~exhaust~~ go through Roof Monitor NS6633.

(l) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions ~~exhaust~~ go through Roof Monitor NS6631.

(m) Two (2) Steel Slag Skimming Stations, consisting of a slag skimmers, identified as NSS10292 and ~~skimmer deslagger, identified as~~ NSS20287. Both were constructed in 1973~~.~~ with fugitive e ~~E~~missions ~~exhaust~~ through Roof Monitor NS6633.

(n) One (1) Slingot Station, identified as NSST0290, constructed in 1986, with fugitive emissions ~~exhaust~~ through Roof Monitor NS6634.

(o) Eight (8) natural gas fired Tundish Preheaters located at the No. 2 Caster, with a heat

input capacity of 6 MMBtu per hour each, with fugitive emissions through Roof Monitor NC6635.

Explanation: Various corrections, clarifications and comments are provided here regarding the facility descriptions. Item (a) was revised because hot metal transfer, mixers, and desulfuriization are all one unit/station. Baghouse NS3115 discharges directly and does not have a stack. Item (j) was revised because there are no emission control devices at the casters. The term "exhaust" was changed where there is no mechanical exhausting device.

Response to Comment 234

Condition A.3 and Section D.9 description box are revised and renumbered as follows:

(a) Two (2) Hot Metal **Transfer and** Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. **These stations include:** ~~Emissions are controlled by a baghouse NS3115, exhausting through stack NS6144 and fugitive emissions exhausting through the roof monitor NS6631.~~

~~(b)~~ ~~T~~**t**wo (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the **hot metal transfer and desulfurization stations,** mixers and heaters are controlled by the **Hot Metal Transfer and** Desulfurization Station**s** Baghouse NS3115 **that discharges** ~~exhausting~~ through ~~stack~~ NS6144. ~~and~~ **T**~~t~~he ~~fugitive~~ uncontrolled emissions **exhaust** through roof monitor NS6631.

(b) ~~(c)~~ Q-Basic Oxygen Process (BOP) **vessels** ~~operations~~, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, ~~each~~ with a maximum capacity of **250** ~~500~~ tons per hour **each**. Primary emissions are controlled by **open combustion hood and** two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

(c) ~~(d)~~ Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans ~~and two (2) whirl vanes~~ exhausting to Stacks NS6124 and NS6125.

(d) ~~(e)~~ Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627and NS6628 **recycling captured material** ~~returning emissions~~ back to the process; One (1) North Flux Handling Baghouse at116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.

(e) ~~(f)~~ Three (3) Ladle Metallurgical Facilities, LMF1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in

1991 with a maximum capacity of 348 tons per hour each. **Hot fume e**~~E~~missions from LMF 1 and 2 are controlled by Nos. 1 and 2 **LMF** Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by **the LMF Nos. 1 and 2 Material Handling** baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by **the LMF 3 Hot Fume and Material Handling B**~~b~~aghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

(f) ~~(g)~~ One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. **Carbon monoxide and other combustible gas e** ~~E~~missions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.

(g) ~~(h)~~ One (1) Slag Conditioning Station **servicing the RH Vacuum Degasser**, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.

(1) PM_{10} emissions from the station are controlled by a baghouse exhausting through Stacks S-1 through S-6 and **recycling captured material** back to the process.

(2) PM_{10} emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the **RH Vacuum Degasser Slag Conditioning Baghouse NS3207** ~~No. 1 Hot fume exhaust baghouse NS3135~~, exhausting through Stack **NS6636**~~6146~~.

(h) ~~(i)~~ ~~One (1) Lime Dumping Station identified as NSFH0249,~~ **O** ~~o~~ne (1) Daytank Lime Silo **at the lime dumping station,** identified as NSDS0250 ~~and one (1) Desulfurization Lime and one (1) Mag Container identified as NSDS0245~~, constructed in 1971. Emissions are controlled by **the Daytank Lime Silo** baghouses **NS3106** ~~NS3122, NS3206 and NS3111~~, exhausting through the stack~~s~~ ~~NS6121~~, NS6629~~, and NS6624~~.

(i) ~~(j)~~ Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of **800** ~~600~~ tons per hour combined. Lines A and B were constructed in1986. Line C was constructed in 1991. Emissions from the continuous casters **go** ~~exhaust~~ to the Roof Monitor NC6635. ~~Emissions from Line C are discharged back to the slab spray water area for control~~.

(j) ~~(k)~~ Fourteen (14) natural gas fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions ~~exhaust~~ **go** through Roof Monitor NS6633.

(k) ~~(l)~~ Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions ~~exhaust~~ **go** through Roof Monitor NS6631.

(l) ~~(m)~~ Two (2) **Steel Slag** Skimming Stations, consisting of a **slag** skimmers, identified as NSS10292 and ~~skimmer deslagger, identified as~~ NSS20287. Both were constructed in 1973. ~~with~~ Emissions ~~exhaust~~ **go** through Roof Monitor NS6633.

(m) ~~(n)~~ One (1) Slingot Station, identified as NSST0290, constructed in 1986., ~~with e~~ **E**missions

~~exhaust~~ **go** through Roof Monitor NS6634.

(n) ~~(o)~~ **Eight (8) natural gas fired Tundish Preheaters located at the No. 2 Caster, with a heat input capacity of 6 MMBtu per hour each. Emissions go through Roof Monitor NC6635.**

Comment 235

Section D.9.1, Item (a)
USS requests the following corrections:

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source, No. 2 Q-BOP Shop, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee shall comply with these General Provision requirements on and after May 22, 2006 ~~May 20, 2003~~.

Response to Comment 235

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP language from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

D.9.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (HAPs): [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

~~(a)~~ The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source**s**, No.2 QBOP **including the Q-BOP Furnace, and shop ancillary operations (hot metal mixers, hot metal desulfurization, slag skimming, ladle metallurgy, and roof monitoring,** except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. ~~The Permittee shall comply with General Provisions requirements on and after May 20, 2003.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.9.23, National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Process Furnace [40 CFR 63, Subpart FFFFF].~~

Comment 236

Section D.9.2, Item (d)-(h)
USS requests the following corrections:

(d) The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the Hot Metal Desulfurization Stations, BOPF vessels, LMFs, skimmer and skimming units and roof monitors. The Permittee must comply with these requirements on and after May 22, 2006.

(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR

63.7800 that applies to No. 2 Q-BOP Shop and required capture and control equipment.

(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b). The Permittee must comply with these requirements on and after May 22, 2006.

(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 2 Q-BOP Shop and required capture and control equipment. The Permittee must comply with these requirements on and after May 22, 2006

(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 2 Q-BOP Shop and required capture and control equipment. The Permittee must comply with these requirements on and after May 22, 2006

Explanation: These conditions clarify the date that the conditions are applicable in accordance with the MACT standards.

Response to Comment 236

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general emissions limitations from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable emissions limitations associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Process Furnace (BOPF) Shops [40 CFR 63, Subpart FFFFF]~~

~~(a) The provisions of 40 CFR 63, Subpart FFFFF (National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing) apply to the affected sources. A copy of this rule is available on the US EPA Toxics Website at http://www.epa.gov/ttn/atw/eparules.html. The Permittee must comply with these requirements on and after May 22, 2006.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph(a) of this condition.~~

(c) ~~Terminology used in this section is defined in the CAA, 40 CFR 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

~~(d) The Permittee shall meet the each emission limitation in 40 CFR 63.7790 that applies to the Hot Metal Desulfurization Stations, BOPF vessels, LMFs, skimmer and skimming units and roof monitors.~~

~~(e) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to No. 2 Q-BOP Shop and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written start-up, shutdown and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of start-up, shutdown or malfunction, the Permittee shall operate in accordance with the plan and 40 CFR 63.7835(b).~~

~~(g) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the No. 2 Q-BOP Shop and required capture and control equipment.~~

~~(h) The Permittee shall meet each requirement in 40 CFR 63.7831 regarding installation, operation and maintenance of monitors for each monitor required by 40 CFR 63, Subpart FFFFF, that applies to the No. 2 Q-BOP Shop and required capture and control equipment.~~

Comment 237

Section D.9.3, Item (a) and (j)
USS requests the following corrections:

(a) The PM_{10} emissions from the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Baghouses discharge ~~Stack~~ NS6144 shall not exceed to 0.007 grains per dry standard cubic foot of exhaust air and 13.0 pounds per hour.

(j) The PM_{10} emissions from the Number 2 Q-BOP RH vacuum degasser Slag Conditioning Baghouse stacks S-1 through S-6, shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.49 pounds per hour.

Explanation: Item (a) was revised because the baghouse discharges directly and does not have a stack.

Response to Comment 237

Condition D.9.3 is renumbered D.9.2.

The language is changed so it matches the descriptions in the description box as shown in response to comment 234. The permit is revised as follows:

D.9.~~3~~ **2** Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM_{10} emissions from the Number 2 Q-BOP Shop operations shall comply with the following:

(a) The PM_{10} emissions from the Number 2 Q-BOP Hot Metal **Transfer and** Desulfurization Baghouse**s discharge** ~~Stack~~ NS6144 shall not exceed to 0.007 grains per dry standard cubic foot of exhaust air and 13.0 pounds per hour.

(j) The PM_{10} emissions from the Number 2 Q-BOP RH **Vacuum D** ~~d~~egasser Slag Conditioning Baghouse stacks S-1 through S-6 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.49 pounds per hour.

Comment 238

Section D.9.4
USS requests the following corrections:

> ~~*Pursuant to 326 IAC 6-1-2(a), the particulate emissions from the roof monitors NS6631, NS6632, NS6633 and NS6634 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).*~~

Explanation: Assigning a generic limit to a non-point, non-testable, non-mechanical fugitive source is not technically feasible and should be deleted. Only opacity limits apply here and have been established.

Response to Comment 238

Condition D.9.4 is renumbered D.9.3.

D.9.~~4~~ **3** Particulate Emissions Limitations [326 IAC 6.8-1-2(a)]

> The emissions from the roof monitors are not considered "fugitive emissions" as defined under 326 IAC 2-2-1(x) and are therefore subject to the requirements of 326 IAC 6.8-1-2(a). Regardless of whether an emission unit exhausts directly to the atmosphere or indirectly through a building opening or ventilation system, it shall comply with grain loading limit of three-hundredths (0.03) grains per dry standard cubic foot (dscf). Reasonable accommodations are made with respect to compliance monitoring or testing. Compliance should be documented in the Annual Compliance Certification (ACC). The requirement of the rule is an applicable requirement and must be included in the permit. No change has been made as a result of this comment.

Comment 239

Section D.9.5, Item (a)
USS requests the following corrections:

> *(a) Opacity from the Number 2 Q-BOP Hot Metal <u>Transfer and</u> Desulfurization Stations Baghouse stack NS6144 shall not exceed five percent (5%) for any three (3) minute average.*

Response to Comment 239

Condition D.9.5 is renumbered D.9.4.

The language is changed so it matches the descriptions in the description box as shown in response to comment 234. The permit is revised as follows:

D.9.~~5~~ **4** Lake County Opacity Limitations [326 IAC 6.8-3-4]

> Pursuant to 326 IAC 6.8-3-4 the visible emissions from the Number 2 Q-BOP Shop operations shall be limited as follows:
>
> (a) Opacity from the Number 2 Q-BOP Hot Metal **Transfer and** Desulfurization Stations Baghouse stack NS6144 shall not exceed five percent (5%) for any three (3) minute average.

Comment 240

Section D.9.6
USS requests the following corrections:

D.9.6 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20(c)(3) ~~7-4-1.1(a)]~~

Pursuant to 326 IAC 7-4.1-20(c)(3) ~~1.1(a)~~, ~~fossil~~ gaseous fuel~~ed~~ sources without specific limitations ~~, the two (2) hot metal mixer Heaters NSMMH0251, Ladle Preheaters/dryers NBLD0262 and the RH Degasser heaters NSAB0276 and NSSB0275~~ shall burn natural gas only.

Explanation: The citation was corrected to incorporate the newly revised SIP citations.

Response to Comment 240

Condition D.9.6 is renumbered D.9.5.

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.9.~~6~~**5** Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(a)]~~ **[326 IC 7-4.1-20(c)(3)]**

~~Pursuant to 326 IAC 7-4.1.1(a), fossil fueled sources, the two (2) hot metal mixer Heaters NSMMH0251, Ladle Preheaters/dryers NBLD0262 and the RH Degasser heaters NSAB0276 and NSSB0275 shall burn natural gas only.~~

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

Section D.9.7
USS requests the following corrections:

D.9.7 Sulfur Dioxide (SO_2 Limitations – Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20] ~~Hot Metal Processing Facility Limitations~~

Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 and terminated by the inclusion of this condition as of issuance of this permit, the Permittee shall comply with the following:

(a) The SO_2 emissions from the Hot Metal Transfer and Desulfurization Stations baghouse ~~processing facilities two hot metal desulfurization stations NSDS0246 and mixers NSMM0264~~ as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, as applicable.

(b) The SO_2 emissions from the Hot Metal Transfer and Desulfurization Stations baghouse ~~processing facilities: two hot metal desulfurization stations NSDS0246 and mixers NSMM0264~~ as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

Pursuant to 326 IAC 7-4.1-20(a)(1)(L)and (b)(10), the sulfur dioxide emissions from the No. 2 QBOP Shop Hot Metal Transfer and Desulfurization Stations baghouse shall not exceed 28.54 pounds per hour.

Explanation: The topic heading was clarified and the citation corrected for consistency with the new SIP. This insertion in the first paragraph clarifies that the consent order is fulfilled and terminated upon this permit's issuance. Hot metal transfer, mixing, and desulfurization occur at one unit/station. The term "as applicable" was added to item (a) because it is the exact language in the Consent Order.

Response to Comment 241

Condition D.9.7 is renumbered D.9.6.

Part 1 To clarify the specific equipment tested for the pollutant sulfur dioxide.

Part 2 The EPA reviewed and approved the revised Lake County sulfur dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised (SO_2) SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit.

Part 3 U.S. Steel can request a letter from the S EPUA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004once the Part 70 Permit is issued by IDEM, OAQ. Reference to the administrative consent order is included in this permit to show where the federally enforceable SO_2 limits originated.

The permit is revised as follows:

D.9.~~7~~ **6 Sulfur Dioxide (SO_2 Limitations – Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]** ~~Hot Metal Processing Facility Limitations~~

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, the Permittee shall comply with the following:

~~(a)~~ **(1)** The SO_2 emissions from the Hot Metal **Transfer and Desulfurization Stations baghouse** ~~processing facilities two hot metal desulfurization stations NSDS0246 and mixers NSMM0264~~ as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming, **as applicable**.

~~(b)~~ **(2)** The SO_2 emissions from the Hot Metal **Transfer and Desulfurization Stations baghouse** ~~processing facilities: two hot metal desulfurization stations NSDS0246 and mixers NSMM0264~~ as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(L)and (b)(10), the SO_2 emissions from the No. 2 QBOP Shop Hot Metal Transfer and Desulfurization Stations baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

Comment 242

Section D.9.8
USS requests the following corrections:

~~*D.9.8 Carbon Monoxide (CO) Limitations 326 IAC 9-1-2*~~

~~*Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the Number 2 Q-BOP furnace waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.*~~

Explanation: IDEM has determined that this limitation does not apply to integrated steel mills as evidenced by this limitation's exclusion in the Part 70 permits of other integrated steel mills. The rule applies to ferrous metal smelters, not to integrated steel production. This condition, as written, would not allow this facility to operate as there is no an afterburner, boiler or incinerator at this facility.

Response to Comment 242

Pursuant to 326 IAC 9-1-2(2) carbon monoxide limitations apply to basic oxygen furnaces constructed after March 21, 1972 at integrated steel mills. No. 1 Q-BOP was constructed in 1973. Therefore the permit is not revised as a result of this comment.

Condition D.9.8 is renumbered D.9.7.

D.9.~~8~~ **7** Carbon Monoxide (CO) Limitations 326 IAC 9-1-2

Comment 243

Section D.9.9
USS requests the following corrections:

D.9.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for <u>any emission control devices at this facility</u> ~~those facilities and any associated control devices~~.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 243

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the Hot Metal Desulfurization Stations, flux handling system, Q-BOP vessels, Ladle Metallurgical Stations continuous caster themselves because lack of proper maintenance on these facilities can result in increased emissions. Therefore the permit is not revised as result of this comment.

Condition D.9.9 is renumbered D.9.8.

D.9.~~9~~ **8** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Comment 244

Section D.9.10
USS requests the following corrections:

D.9.10 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for BOPF Shops [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]

The Permittee shall comply with the following on or after May 22, 2006 unless otherwise required under 40 CFR 63, FFFFF.

(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in Condition D.3.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3.

Explanation: The insertion clarifies the date that the condition applies in accordance with the MACT standards.

Response to Comment 244

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP compliance requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable compliance requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.10 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Compliance Requirements for BOPF Shops [40 CFR 63.7810(a)][40 CFR 63.7825] [40 CFR 63.7826][40 CFR 63.7832]~~

~~(a) Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission~~

~~limitations and operation and maintenance requirements in Condition D.3.2 at all times, except during periods of start-up, shutdown and malfunction as defined in40 CFR 63.2, which incorporated by reference in 326 IAC 20-1-3.~~

~~(b) The Permittee shall demonstrate initial compliance with the emission limitations that apply to the No.2 Q-BOP Shop in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the No. 2 Q-BOP Shop, in accordance with 40 CFR 63.7826.~~

~~(d) The Permittee shall monitor and collect data to demonstrate continuous compliance with 40 CFR 63, Subpart FFFFF, in accordance with 40 CFR 63.7832.~~

~~(e) The Permittee shall demonstrate continuous compliance with the emissions limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 2 Q-BOP Shop and required capture and control equipment in accordance with 40 CFR 63.7833.~~

~~(f) The Permittee shall demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63, Subpart FFFFF that apply to the No. 2 Q-BOP Shop and required capture and control equipment in accordance with 40 CFR 63.7834.~~

Comment 245

Section D.9.11
USS requests the following corrections:

The Permittee shall comply with the following on or after May 22, 2006 unless otherwise required under 40 CFR 63, FFFFF.

(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 2 Q-BOP Shop, in accordance with 40 CFR 63.7820~~1~~.

(b) The Permittee shall conduct subsequent performance tests that apply to the No. 2 Q-BOP Shop, in accordance with 40 CFR 63.7821.

(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for the Hot Metal Transfer and Desulfurization Stations, BOPF vessels, LMFs, ~~skimmer and~~ skimming units and roof monitors.

(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the Hot Metal Transfer and Desulfurization Stations, BOPF vessels, LMFs, skimmer and skimming units and roof monitors.

(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 2 Q-BOP Shop and required capture and control equipment.

Explanation: The insertion clarifies the date that this condition applies in accordance with the MACT standards.

Response to Comment 245

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general testing requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable testing requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.11 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing -Testing Requirements [40 CFR 63.7820 through 63.7824]~~

~~(a) The Permittee shall conduct performance tests and other initial compliance demonstrations that apply to the No. 2 Q-BOP Shop, in accordance with 40 CFR 63.7821.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 2 Q-BOP Shop, in accordance with 40 CFR 63.7821.~~

~~(c) The Permittee shall use the test methods and other procedures in 40 CFR 63.7822 when demonstrating compliance with the emission limits for particulate matter for the Hot Metal Desulfurization Stations, BOPF vessels, LMFs, skimmer and skimming units and roof monitors.~~

~~(d) The Permittee shall use the test methods and other procedures in 40 CFR 63.7823 when demonstrating compliance with the opacity limits for the Hot Metal Desulfurization Stations, BOPF vessels, LMFs, skimmer and skimming units and roof monitors.~~

~~(e) The Permittee shall use the test methods and other procedures in 40 CFR 63.7824 to establish and demonstrate initial compliance with operating limits for the No. 2 Q-BOP Shop and required capture and control equipment.~~

Comment 246

Section D.9.12
USS requests the following corrections:

D.9.12 <u>Particulate Matter</u> Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.3, the Permittee shall perform PM_{10} testing <u>for non-condensibles (front half)</u> on the Number 2 Q-BOP Hot Metal <u>Transfer and</u> Desulfurization <u>Stations</u> Baghouse <u>discharge</u> ~~Stack NS6144~~ using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.3, the Permittee shall perform PM_{10} testing <u>for non-condensibles (front half)</u> on the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every <u>five</u> ~~two and one half (2 ½)~~ years from the date of this valid compliance demonstration. All tests shall be

performed in accordance with Section C - Performance Testing.

(c) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.3, the Permittee shall perform PM_{10} testing for non-condensibles (front half) on the Number 2 Q-BOP Secondary Emissions Baghouse Stack NS6123, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five ~~two and one half (2 ½)~~ years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Response to Comment 246

Condition D.9.12 is renumbered D.9.9.

Part 1 The specific pollutant testing is added to the condition name to distinguish what pollutant is to be tested.

Part 2 The equipment name changes are addressed in IDEM response to comment 234.

Part 3 The testing requirements condition has been revised to indicate that the test methods to demonstrate compliance with the applicable PM10 limitation are specified in 326 IAC 6.8-4-1(1). Pursuant to 326 IAC 6.8-4-1(1), emissions of PM10 shall be measured by any of the following: (1) 40 CFR 51, Appendix M, Method 201, (2) 40 CFR 51, Appendix M, Method 201A, (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4. To clarify which test methods are used to test PM_{10}, the exact rule reference for PM_{10} test methods for the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Stations Baghouse discharge, Number 2 Q-BOP Gas Cleaning System stacks and the Number 2 Q-BOP Secondary Emissions Baghouse Stack are added. IDEM has determined that the stack test frequency can be changed from every two and one half years to every five years for the Number 2 Q-BOP Gas Cleaning System and the Number 2 Q-BOP Secondary Emissions Baghouse. The permit is revised as follows:

D.9.~~12~~ **9 Particulate** Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit or five (5) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.~~3~~**2,** the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Hot Metal **Transfer and** Desulfurization **Stations** Baghouse **discharge** ~~Stack NS6144~~ using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.~~3~~**2**, the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every **five (5)** ~~two and one half (2 ½)~~ years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

(c) Within thirty (30) months after issuance of this permit or two and one half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.9.~~3~~**2**, the Permittee shall perform PM_{10} testing on the Number 2 Q-BOP Secondary Emissions Baghouse Stack NS6123, using **the appropriate** methods **to measure PM_{10}** as listed in ~~326 IAC 6-1-10.1(f)~~ **326 IAC 6.8-4-1(1)** or other methods approved by the Commissioner. This test shall be repeated at least once every **five (5)** ~~two and one half (2 ½)~~ years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 247

Section D.9.13
USS requests the following corrections:

D.9.13 Sulfur Dioxide (SO_2) Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 and terminated by the inclusion of this condition as of the issuance of this permit, w ~~W~~ithin thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform SO_2 emission testing on the No. 2 QBOP Shop Hot Metal Transfer and ~~two hot metal~~ desulfurization stations baghouse discharge during hot metal transfer, hot metal desuldurization , reagent injection and hot metal skimming operations ~~and mixers exhaust Stack NS6144~~, utilizing ~~a test method approved by the Commissioner~~ the test protocol submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004, to show compliance with condition D.9.7(a), ~~in accordance with Section C – Performance Testing~~. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 and terminated by the inclusion of this condition as of issuance of this permit , w ~~W~~ithin thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 2 QBOP Shop Hot Metal Transfer and desulfurization station baghouse discharge during reagent injection operations only. ~~exhaust Stack NS6144~~ utilizing a test method approved by the Commissioner to show compliance with condition D.9.7(b) ~~in accordance with Section C – Performance Testing~~ during the desulfurization ~~desulfirization~~ reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and terminated by the inclusion of this condition as of issuance of this permit demonstration of compliance by performance testing per D.9.13(b) above shall not fulfill the compliance demonstration requirement for D.9.13(a).

Explanation: Inserted text clarifies that the consent order is fulfilled and terminated upon this permit's issuance. Items (a) and (b) were revised because al processes are located at one station without a stack and directly discharged. Testing is to be conducted in accordance with test protocol submitted as required in the EPA Administrative Consent Order.

Response to Comment 247

Condition D.9.13 is renumbered D.9.10.

Part 1 The specific pollutant testing is added to the condition name to distinguish what pollutant is to be tested.

Part 2 To clarify that testing is to be performed according to the test protocol that was required by the Consent Order, and show the baghouse has no stack.

Part 3 U.S. Steel can request a letter from the US EPA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004. Reference to the agreed order is included in this permit to show where the federally enforceable SO_2 limits originated. Therefore, the permit is not revised as a result of this comment.

The permit is revised as follows:

D.9.~~13~~ **10 Sulfur Dioxide (SO_2)** Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 , **w** ~~W~~ithin thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform SO_2 emission testing on the **No. 2 QBOP Shop Hot Metal Transfer and** ~~two hot metal~~ desulfurization stations **baghouse discharge during hot metal transfer, hot metal desulfurization, reagent injection and hot metal skimming operations** ~~and mixers exhaust Stack NS6144~~, utilizing ~~a test method approved by the Commissioner~~ **the test protocol submitted in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004,** to show compliance with condition D.9.~~7~~ **6**(a), ~~in accordance with Section C – Performance Testing.~~ This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, **w** ~~W~~ithin thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the **No. 2 QBOP Shop Hot Metal Transfer and desulfurization station baghouse discharge during reagent injection operations only** ~~exhaust Stack NS6144~~**-**utilizing a test method approved by the Commissioner to show compliance with condition D.9.7(b) ~~in accordance with Section C – Performance Testing~~ during the **desulfurization** ~~desulfirization~~ reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, demonstration **of** compliance by performance testing per D.9.~~13~~**10**(b) above shall not fulfill the compliance demonstration requirement for D.9.~~13~~**10**(a).

Section D.9.14, Item (a), (b) and (c)
USS requests the following corrections:

(a) Hot Metal Transfer and Desulfurization Baghouse NS3115

(b) No. 2 QBOP Secondary Emissions Baghouse NS3124

(c) The two (2) No. 2 QBOP Gas Cleaning Systems NS3125 and NS3126

Response to Comment 248

Condition D.9.14 is renumbered D.9.11.

See Response to Comment 252 for additional changes to Condition D.9.11. The names of the control devices are revised as follows:

D.9.~~14~~ **11**Particulate Matter Control [326 IAC 2-7-6(6)]

(a) Except as otherwise provided by statute, rule or this permit, the control devices listed below shall be in operation for particulate emissions control at all times the associated operations at the No. 2 Q-BOP Shop are in operation. The control devices are as follows:

(~~a~~**1**) Hot Metal **Transfer and** Desulfurization Baghouse NS3115

(~~b~~**2**) **No. 2 QBOP** Secondary **Emissions** Baghouse NS3124

(~~c~~**3**) The two (2) **No. 2 QBOP** Gas Cleaning Systems NS3125 and NS3126

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Comment 249

Section D.9.16
USS requests the following corrections:

~~*D.9.16 Visible Emissions Notations*~~

~~*(a) Visible emission notations of the Desulfurization Stations baghouse stack NS6144, Secondary Baghouse stack NS6123 and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125, shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.*~~

~~*(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.*~~

~~*(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.*~~

~~*(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.*~~

~~*(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency*~~

~~*and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*~~

Explanation: Visible Emission Notations are over burdensome for this facility. The amount of parametric data monitored and recorded in accordance with the CCP (and the upcoming MACT standard) is more than sufficient to ensure continuous compliance with PM.

Response to Comment 249

Condition D.9.16 is renumbered D.9.13.

326 IAC 6.8-8-7(A) requires a Continuous Compliance Plans (CCP) for baghouses to include a description of any visible emissions evaluation program. Item (f) has been added to address this issue.

Upon further review, IDEM has determined that once per day visible emission notations is generally sufficient to satisfy the requirements of the Part 70 rules in 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the permit is revised as shown below.

Compliance monitoring conditions such as the requirement to perform visible emission notations are necessary to demonstrate continuous compliance with the permit requirements. Visible emission notations are used to indicate compliance with 326 IAC 5-1 and the particulate matter limits pursuant to 326 IAC 6.8-10-3.

Condition D.9.13(e) has been revised to reflect the new Compliance Response Plan condition title. See IDEM change 24.

D.9.~~16~~ **13**Visible Emissions Notations

(a) Visible emission notations of the Desulfurization Stations baghouse stack NS6144, Secondary Baghouse stack NS6123 and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125, shall be performed once per ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed**, the Permittee shall take reasonable response steps in accordance with** Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** shall be considered a deviation of this permit.

(f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program, in accordance with Section C- Continuous Compliance Plan.

Comment 250

Section D.9.17
USS requests the following corrections:

(a) *The Permittee shall record the total static pressure drop across the No. 2 QBOP Secondary Emissions baghouse NS3124 used in conjunction with the secondary emissions from the three (3) Q-BOP vessels T, W, and Y, at least once per day ~~a shift~~, when either of the three (3) Q-BOP vessels T, W, and Y, is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~3.0 and 9.0~~ 2 and 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*

(b) *The Permittee shall record the total static pressure drop across the venture scrubber throats and scrubber total supply water flow rate of the No. 2 Q-BOP gas cleaning Systems scrubbers NS3125 and NS3126 used in conjunction with the 3 No.2 Q-BOP vessels at least once per shift when either the three (3) Q-BOP vessels T, W, and Y units is operating. For each scrubber system, w ~~W~~hen for any one reading across the venture scrubber throats, ~~the pressure drop across the baghouses~~ is outside the normal range of ~~50.0 and 70.0~~ 50 to 70 inches of water or the scrubber supply water flow rate is outside the normal range of ~~3,000 to 4,500~~ 2,000 and 4,500 gallons per minute (gpm) or ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*

(c) *The Permittee shall record the total static pressure drop across the Hot Metal Desulfurization baghouse NS3115 ~~used in conjunction with the No. 2 Q-BOP Hot Metal Desulfurization stations and mixers, are in operation.~~ When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~3.0 and 9.0~~ 2 and 10 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit.*

(d) *The instrument used for determining the pressure and flow rate shall comply with Section C - Pressure Gauge and Other Instruments Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.*

Explanation: USS requests the frequency of monitoring at be reduced to daily. This, in addition to the monitoring requirements of the CCP and the upcoming MACT, is more than sufficient to maintain continuous compliance with PM. Other corrections have been provided.

Response to Comment 250

Condition D.9.17 is renumbered D.9.14.

Upon further review, IDEM has determined that once per day monitoring of the control device (or of visible emission notations) is generally sufficient to satisfy the requirements of the Part 70 rules in 326 IAC 2-7-5 and 326 IAC 2-7-6.

The requirement for Continuous Compliance Plan (CCP) is listed in Section C Entire Source. A reference to this Section C condition is added to the permit to clarify a CCP is required for the particulate control devices in this D Section. Therefore, the permit is revised as shown below:

D.9.~~17~~**14**Parametric Monitoring

(a) The Permittee shall record the ~~total static~~ pressure drop across the **No. 2 QBOP Secondary Emissions** baghouse NS3124 used in conjunction with the secondary emissions from the three (3) Q-BOP vessels T, W, and Y, at least once ~~a shift~~, **per day,** when any of the three (3) Q-BOP vessels T, W, and Y, is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~3.0 and 9.0~~ **2 and 10** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation,-Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

(b) The Permittee shall record the ~~total static~~ pressure drop **across the venture scrubber throats** and **scrubber total supply water** flow rate of the No. 2 Q-BOP gas cleaning Systems scrubbers NS3125 and NS3126 used in conjunction with the 3 No.2 Q-BOP vessels at least once per ~~shift~~ **day** when either the three (3) Q-BOP vessels T, W, and Y units is operating. **For each scrubber system, w** ~~W~~hen for any one reading **across the venture scrubber throats**, ~~the pressure drop across the baghouses~~ is outside the normal range of ~~50.0 and 70.0~~ **50 to 70** inches of water or the **scrubber supply water** flow rate is outside the normal range of ~~3,000 to 4,500~~ **2,000 and 4,500** gallons per minute (gpm) or ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation,-Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation,-Implementation, Records, and Reports~~, **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

(c) The Permittee shall record the ~~total static~~ pressure drop across the Hot Metal Desulfurization baghouse NS3115 used in conjunction with the No, 2 Q-BOP Hot Metal Desulfurization stations and mixers, **at least once per day when the desulfurization stations and mixers** are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~3.0 and 9.0~~ **2.0 to 10.0** inches of

water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, **Response to Excursions or Exceedances**, shall be considered a deviation of this permit.

(d) **The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance, in accordance with Section C-Continuous Compliance Plan.**

(e) The instruments used for determining the pressure drop and flow rate shall comply with Section C - ~~Pressure Gauge and Other~~ Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

Comment 251

Section D.9.18
USS requests the following corrections:

D.9.18 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the No. 2 Q-BOP Hot Metal Transfer and Desulfurization Baghouse NS3115 ~~secondary emissions baghouse NS3124,~~ No. 2 Q-BOP secondary emissions baghouse NS3124, No.1 LMF Hot Fume Exhaust Baghouse NS3135, No. 2 LMF Hot Fume Exhaust Baghouse NS3136, and No. 2 Q-BOP RH Vacuum Degasser Slag Conditioning Station Baghouse. Inspections required by this condition shall not be performed in consecutive months. All known defective bags shall be replaced.

Explanation: Quarterly inspections of the baghouse and its systems are performed in accordance with the CCP. Problems with bags are normally included through means other than a physical bag inspection.

Response to Comment 251

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirements to keep records of the inspections have been removed.

~~D.9.18 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the No. 2 Q-BOP Hot Metal Desulfurization Baghouse NS3115 secondary emissions baghouse NS3124, No. 2 Q-BOP secondary emissions baghouse NS3124, No.1 LMF Hot Fume Exhaust Baghouse NS3135, No. 2 LMF Hot Fume Exhaust Baghouse NS3136, and No. 2 Q-BOP RH Vacuum Degasser Slag Conditioning Station Baghouse. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.9.20 Scrubber Inspections~~

~~An inspection shall be performed each calendar quarter of the Number 2 Q-BOP gas cleaning system scrubbers NS3125 and NS3126 controlling the three (3) Q-BOP vessels T, W, and Y. Inspections required by this condition shall not be performed in consecutive months.~~

Comment 252

Section D.9.19, Item (a)
USS requests the following corrections:

(a) For multi-compartment units, the affected compartments will be shut down as soon as practical to ensure safety of personnel and equipment ~~immediately~~ until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Explanation: The safety of personnel and equipment should be considered during shutdowns of equipment and process units.

Response to Comment 252

Paragraph (a) of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to Condition D.9.11 requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

Paragraph (b) of this condition has been deleted. IDEM received an email on October 17, 2005 from US Steel-Gary Works stating no single compartment baghouses are in service at the source. Therefore, the permit is revised as follows:

~~D.9.19 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with~~

~~Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

D.9.11 Particulate Matter Control **[326 2-7-6(6)]**

(a) **Except as otherwise provided by statute, rule or this permit, the c**~~C~~ontrol devices listed below shall be in operation for particulate emissions control at all times the associated operations at the No. 2 Q-BOP Shop are in operation. The control devices are as follows:

~~(a)~~ **(1)** Hot Metal Transfer and Desulfurization Baghouse NS3115

~~(b)~~ **(2)** No. 2 QBOP Secondary Emissions Baghouse NS3124

~~(c)~~ **(3)** The two (2) No. 2 QBOP Gas Cleaning Systems NS3125 and NS3126

~~(d)~~ **(4)** No.1 LMF Hot Fume Exhaust Baghouse NS3135

~~(e)~~ **(5)** No. 2 LMF Hot Fume Exhaust Baghouse NS3136

~~(f)~~ **(6)** No. 1 and No. 2 LMF Material Handling Baghouse NS3052

~~(g)~~ **(7)** No. 3 LMF Hot Fume and Material Handling Baghouse NS3137

(b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

Comment 253

Section D.9.22
USS requests the following corrections:

D.9.22 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for BOPF Shops [40 CFR 63.7810(b)][40 CFR 63.7]

The Permittee shall comply with the following on or after May 22, 2006, unless otherwise required under 40 CFR 63, Subpart FFFFF.

Explanation: The insertion clarifies the date that this condition is applicable in accordance with the MACT standards.

Response to Comment 253

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general record keeping requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable record keeping requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.22 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for BOPF Shops [40 CFR 63.7810(b)][40 CFR 63.7]~~

~~(a) During the period between May 22, 2006 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, the Permittee shall maintain a log detailing the operation and maintenance of the No. 2 Q-BOP Shop control equipment in accordance with 40 CFR 63.7810(b).~~

~~(b) The Permittee shall keep the records required by 40 CFR 63.7842(a).~~

~~(c) If a Continuous Opacity Monitoring System (COMS) is used to comply with an opacity standard, the Permittee shall keep the records specified in 40 CFR 63.7842(b).~~

~~(d) The Permittee shall keep the records required in 40 CFR 63.6(h)(6) for visible observations in accordance with 40 CFR 63.7842(c).~~

~~(e) The Permittee shall keep the records required in 40 CFR 63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to the No. 2 Q-BOP Shop in 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, FFFFF in accordance with 40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

Comment 254

Section D.9.23 (a)-(c), (e)
USS requests the following corrections:

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 and

terminated by the inclusion of this condition as of issuance of this permit, and to document compliance with Condition D.9.7, the Permittee shall keep records of the monthly hot metal throughput for the No. 1 and No. 2 Hot Metal Desulfurization Stations.

(b) To document compliance with Condition D.9.16 the Permittee shall maintain the records of once per shift visible emission notations of the Hot Metal Transfer and Desulfurization Stations baghouse discharge ~~Stack~~ NS6144, No. 2 QBOP Secondary Emissions Baghouse Stack NS6123, and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125 exhausts.

(c) To document compliance with Condition D.9.17, the Permittee shall maintain records of the once per shift of the total static pressure drop of the No. 2 QBOP secondary emissions baghouse NS3124, pressure drop across the venturi scrubber throats and supply water flow rate of the No. 2 QBOP Gas cleaning systems scrubbers NS3125 and NS3126, and total static pressure drop of the Hot Metal Transfer and Desulfurization baghouse NS3115, during normal operation.

(e) To document compliance with Condition D.9.9, the Permittee shall maintain records of any ~~additional~~ inspections prescribed by the Preventive Maintenance Plan.

Explanation: Inserted text in Item (a) clarifies that the consent order is fulfilled and terminated upon this permit's issuance. The Desulfurization Stations baghouse does not have a stack and discharges directly.

Response to Comment 254

Condition 9.23 is renumbered Condition 9.16.

Part 1 U.S. Steel can request a letter from the US EPA stating US Steel has completed the requirements of the EPA Administrative Consent Order, issued January 2, 2004. Reference to the agreed order is included in this permit to show where the federally enforceable SO_2 record keeping requirements originated. Therefore, the permit is not revised as a result of this comment.

Part 2 Since the monitoring frequency has been revised to once per day, the language in the record keeping requirement is also revised to reflect the change. The requirements in conditions D.9.18 and D.9.20 to inspect control devices have been removed and the corresponding recordkeeping requirements for the control devices are also removed from the permit.

Part 3 IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. The record keeping requirement is removed. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation.

The description of stacks and direct discharge are clarified. Therefore, the permit is revised as follows:

D.9.~~23~~**16**General Record Keeping Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, and to document compliance with Condition D.9.~~7~~**6,** the Permittee shall keep records of the monthly hot metal throughput for the No. 1 and No. 2 Hot Metal Desulfurization Stations.

(b) To document compliance with Condition D.9.~~16~~ **13** the Permittee shall maintain the records of once per ~~shift~~ **day** visible emission notations of the **Hot Metal Transfer and**

Desulfurization Station**s baghouse discharge** ~~Stack~~ NS6144**, No. 2 QBOP** Secondary **Emissions** Baghouse Stack NS6123, and No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125 exhausts.

(c) To document compliance with Condition D.9.~~17~~ **14**, the Permittee shall maintain records of the once per ~~shift~~ **day** of the ~~total static~~ pressure drop of the **No. 2 QBOP** secondary emissions baghouse NS3124, pressure drop **across the venturi scrubber throats** and **supply water** flow rate of the **No. 2 QBOP** Gas cleaning systems scrubbers NS3125 and NS3126, and total static pressure drop of the Hot Metal **Transfer and** Desulfurization baghouse NS3115, during normal operation.

~~(d) To document compliance with Conditions D.9.18 and D.9.20 the Permittee shall maintain records of the results of the inspections required by conditions D.9.18 and D.9.20.~~

~~(e) To document compliance with Condition D.9.9, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(f)~~ **(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 255

Section D.9.24
USS requests the following corrections:

D.9.24 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Reporting Requirements for BOPF Shops [40 CFR 63.7835][40 CFR 63.7640]

The Permittee shall comply with the following on or after May 22, 2006, unless otherwise required under 40 CFR 63, Subpart FFFFF.

(a) The Permittee shall report each deviation semiannually ~~in the Quarterly Deviation and Compliance Monitoring Report~~ required by the Section C of this permit in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).

Explanation: The insertion clarifies the date that this permit condition is applicable. NESHAP only requires semi-annual deviation reporting in conjunction with semiannual certification of compliance.

Response to Comment 255

After further review, IDEM has removed the abbreviated 40 CFR 63 Subpart FFFFF NESHAP general reporting requirements from this condition and added the specific 40 CFR 63 Subpart FFFFF NESHAP applicable reporting requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17 (See IDEM Response to Comment 256), because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.24 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing- Reporting Requirements for BOPF Shops [40 CFR 63.7835][40 CFR 63.7640]~~

~~(a) The Permittee shall report each deviation in the Quarterly Deviation and Compliance Monitoring Report required by the Section C of this permit in accordance with 40 CFR 63.7835(a), 40 CFR 63.7841(d), 326 IAC 2-1.1-11 and 326 IAC 2-7-5(3).~~

~~(b) The Permittee shall submit the notifications required by 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e) and (f)(4) and 40 CFR 63.9(b) through (h) that apply by the dates specified in those sections in accordance with 40 CFR 63.7840(a).~~

~~(c) The Permittee shall submit an initial notification no later than 120 days after May 20, 2003 in accordance with 40 CFR 63.9(b) and 40 CFR 63.7840. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The initial notification requires the certification by the "responsible official" as defined in 326 IAC 2-7-1(34).~~

~~(d) The Permittee shall submit a notification or compliance status in accordance with 40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7840(e).~~

~~(1) For each initial compliance demonstration that does not include a performance test, the Permittee shall submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.~~

~~(2) For each initial compliance demonstration that does include a performance test, the Permittee shall submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2).~~

~~(3) The notification of compliance status shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
Indianapolis~~, Indiana 46204-2251~~

~~The notification of compliance status requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(e) The Permittee shall submit semiannual compliance reports in accordance with 40 CFR 63.7841(a) and (b).~~

~~(f) If a start-up, shutdown or malfunction occurred during the semiannual reporting period that was not consistent with the start-up, shutdown or malfunction plan, the Permittee shall submit an immediate start-up, shutdown and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

Comment 256

Section D.9.25, Item (b)
USS requests the following corrections:

(b) *The significant permit modification application shall be submitted no later than August 22, 2005 ~~nine (9) months prior to May 22, 2006~~.*

Explanation: This date was revised to remain consistent with the other Section D's of this permit.

Response to Comment 256

Condition D.9.25 is renumbered D.9.17.

After further review IDEM has removed the requirement to submit a significant permit modification to include the specific 40 CFR 63 Subpart FFFFF NESHAP requirements from this condition and added the specific requirements associated with the No. 2 QBOP Shop in the renumbered Condition D.9.17, because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.9.25 Requirements to Submit a Significant Permit Application [326 IAC 2-7-12] [326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM-OAQ to include information from the notification of compliance status in the Part 70 permit.~~

~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient to IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart FFFFF, a description of the affected source and activities subject to the standard and a description of how the Permittee will meet the applicable requirements of the standard.~~

~~(b) The significant permit modification application shall be submitted no later than nine (9) months prior to May 22, 2006.~~

~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

D.9.~~25~~**17 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]**

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you no later than May 22, 2006.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in

compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the average opacity of emissions for each 6-minute period at or below the site-specific opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values established during the initial performance test.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected

source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process

configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance

demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas

during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream "i", gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream "i", dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial

compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter, record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked

and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section.

(1) Using the continuous parameter monitoring system (CPMS) required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(c) For an electrostatic precipitator subject to the operating limit in §63.7790(b)(3) for opacity, you must establish a site-specific operating limit according to the procedures in paragraphs (c)(1) through (3) of this section.

(1) Using the continuous opacity monitoring system (COMS) required in §63.7830(d), measure and record the opacity of emissions from each control device stack during each run of the particulate matter performance test.

(2) Compute and record the 6-minute block average opacity from 36 or more data points equally spaced over each 6-minute period during the test runs.

(3) Determine, based on the 6-minute block averages, the opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values.

(d) You may change the operating limits for a capture system, venturi scrubber, or electrostatic precipitator if you meet the requirements in paragraphs (d)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in

paragraphs (a) through (c) of this section for a control device or capture system.

(e) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (e)(1) through (3) of this section.

(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, "n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples," (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW–846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." Record the sampling date and time, oil content values, and sinter produced (tons/day).

(2) Continue the sampling and analysis procedure for 30 consecutive days.

(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b); and

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed

descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, if applicable, detailed descriptions of the procedures you use for corrective action for baghouses;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel

production cycle) according to the requirements in §63.7832.

(b) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(3) Check the compressed air supply for pulse-jet baghouses each day.

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through (6) of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is

representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance," EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) and (2) of this section:

(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.

(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by completing the requirements of paragraphs (d)(1) through (3) of this section:

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document

conformance with these requirements.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through (3) of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the

semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information

in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report

includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the

date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

***Bag leak detection system* means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering,**

light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace **means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.**

Basic oxygen process furnace shop **means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.**

Basic oxygen process furnace shop ancillary operations **means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.**

Blast furnace **means a furnace used for the production of molten iron from iron ore and other iron bearing materials.**

Bottom-blown furnace **means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.**

Casthouse **means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.**

Certified observer **means a visible emission observer certified to perform EPA Method 9 opacity observations.**

Desulfurization **means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.**

Deviation **means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:**

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end **means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.**

Emission limitation **means any emission limit, opacity limit, or operating limit.**

Hot metal transfer station **means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.**

Integrated iron and steel manufacturing facility **means an establishment engaged in the production of steel from iron ore.**

Ladle metallurgy **means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.**

Primary emissions **means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.**

Primary emission control system **means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).**

Primary oxygen blow **means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).**

Responsible official **means responsible official as defined in §63.2.**

Secondary emissions **means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.**

Secondary emission control system **means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.**

Sinter cooler **means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.**

Sinter plant **means the machine used to produce a fused clinker-like aggregate or**

sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station **means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.**

Steel production cycle **means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.**

Top-blown furnace **means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.**

Windboxes **means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.**

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
9. Each BOPF at a new or existing shop.	**a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\;** **b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle**

	for an existing BOPF shop or 0.01 gr/dscf during the steel production cycle for a new BOPF shop \2\; and **c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.**
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	**You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.**
11. Each ladle metallurgy operation at a new or existing BOPF shop.	**You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.**
12. Each roof monitoring at an existing BOPF shop.	**You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).**

\1\ This limit applies if the cooler is vented to the same control device as the discharge end.
\2\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	**a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop;**

	b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and **c. The average concentration of particulate matter from a control device applied solely to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.**
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	**The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.**
11. Each ladle metallurgy operation at a new or existing BOPF shop	**The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.**
12. Each roof monitor at an existing BOPF shop.	**The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).**

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below

	0.03 gr/dscf; b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; c. Maintaining emissions of particulate matter from a control device applied solely to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).
11. Each ladle metallurgy operation at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).
12. Each roof monitor at an existing BOPF shop.	a. Maintaining the opacity of secondary emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and b. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation

§ 63.1	**Applicability.**	**Yes.**	
§ 63.2	**Definitions**	**Yes.**	
§ 63.3.	**Units and Abbreviations**	**Yes**	
§ 63.4	**Prohibited Activities**	**Yes.**	
§ 63.5	**Construction/Reconstruction**	**Yes.**	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	**Compliance with Standards and Maintenance Requirements.**	**Yes.**	
§ 63.6(h)(2)(i).	**Determining Compliance with Opacity and VE Standards**	**No.**	**Subpart FFFFF specifies Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.**
§ 63.7(a)(1)-(2)	**Applicability and Performance Test Dates**	**No**	**Subpart FFFFF and specifies performance test applicability and dates.**
§ 63.7(a)(3), (b), (c)-(h).	**Performance Testing Requirements.**	**Yes**	
§ 63.8(a)(1)-(a)(3), (b), (c)(1)-(3), (c)(4)(i)-(e), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). (ii), (c)(5) and (6),	**Monitoring Requirements**	**Yes**	**CMS requirements in § 63.8(c)(4) (i)-(d), and (e) apply only to COMS for electrostatic precipitators.**
§ 63.8(a)(4).	**Additional Monitoring Requirements for Control Devices in § 63.11.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.8(c)(4)	**Continuous Monitoring System Requirements.**	**No.**	**Subpart FFFFF specifies requirements for operation of CMS.**
§ 63.8(f)(6).	**RATA Alternative**	**No.**	
§ 63.9	**Notification Requirements.**	**Yes.**	**Additional notifications for CMS in § 63.9(g) apply to COMS for electrostatic precipitators.**
§ 63.9(g)(5).	**DATA Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	**Recordkeeping and Reporting Requirements.**	**Yes**	**Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for electrostatic precipitators.**
§ 63.10(b)(2)(xiii)	**CMS Records for RATA Alternative**	**No.**	
§ 63.10(c)(7)-(8)	**Records of Excess Emissions and Parameter Monitoring Exceedances for**	**No.**	**Subpart FFFFF specifies record requirements.**

	CMS		
§ 63.11	**Control Device Requirements.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.12.	**State Authority and Delegations**	**Yes**	
§ 63.13-§ 63.15	**Addresses, Incorporation by Reference, Availability of Information.**	**Yes**	

Comment 257

Section D.10, Facility Description
USS requests the following corrections:

(a) *Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas and ~~fuel oil,~~ coke oven gas with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.*

Explanation: Corrections to this facility description and process have been made to improve accuracy. Also, fuel oil is not burned in these furnaces.

(b) *Two (2) waste heat boilers Nos. 1 and 2 , identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input capacity from fuel from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas and coke oven gas. Emissions exhaust through ~~Stacks HB6504, HB6505, RM6500, RM6501, RM6502 and RM6503, depending upon heat input configuration.~~ The waste heat boiler stacks HB6504 and HB6505.*

Explanation: Corrections to facility descriptions and processes are provided herein.

(c) *One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, ~~consisting of vertical and horizontal scale breakers,~~ 5 roughing mills and a 7-stand finishing mill with fugitive emissions ~~exhausting~~ through a Roof Monitor RM6630*

Explanation: Corrections to facility descriptions and processes are provided herein. Also, the term "exhausting" implies a mechanical devise.

Response to Comment 257

Condition A.3 and Section D.10 description box are revised as follows:

(a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas and ~~fuel oil,~~ **coke oven gas** with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.

(b) Two (2) waste heat boilers Nos. 1 and 2 , identified as RB1B0508 and RB2B0509,

commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input **capacity from fuel** from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas and coke oven gas. Emissions exhaust through ~~Stacks HB6504, HB6505, RM6500, RM6501, RM6502 and RM6503, depending upon heat input configuration.~~ **the waste heat boiler stacks HB6504 and HB6505**.

(c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, ~~consisting of vertical and horizontal scale breakers,~~ 5 roughing mills and **a** 7-stand finishing mill with **fugitive** emissions ~~exhausting~~ through a Roof Monitor RM6630

Comment 258

Section D.10
USS requests the following corrections:

D.??? General Provisions Relating to National Emission Standards fro Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

(a) The permit shield applies to Condition D.10.8 National Emission Standards fro Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.

D.??? National Emission Standards fro Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD

(a) Pursuant to 40 CFR 63.7506(b), the boilers at this facility are only subject to the initial notification requirements in 40 CFR 63.9(b)(2) and is not subject to any other requirements under 40 CFR 63, Subpart DDDDD.

Explanation: Pursuant to 40 CFR 63.7506(b), initial notification requirements at 40 CFR 63.9(b)(2) apply to the waste heat boilers (large gaseous fuel units). They are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63,Subpart DDDDD. The permit shield applies since this is the only condition applicable.

Response to Comment 258

After further review IDEM has added the NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the waste heat boilers are subject only to the notification requirements, because they are existing large gaseous boilers. Therefore the permit is revised as follows:

D.10.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, Waste Heat Boilers Nos. 1 and 2 as designated by 40 CFR 63.7506(b). The Permittee must comply the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

D.10.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: Waste Heat Boilers Nos. 1 and 2 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

Comment 259

Section D.10.2
USS requests the following corrections:

D.10.2 Sulfur Dioxide (SO_2) Limitations [326 IAC ~~7-4-1.1(c)(22)(G)]~~ 7-4.1-20

Pursuant to 326 IAC ~~7-4-1.1(c)(22)(G)(i-iv)~~ 7-4.1-20, SO_2 emissions from the Reheat Furnace Nos.1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 and RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 shall comply with the following:

~~*(a) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven (477) million Btu per hour for Waste Heat Boiler 1, RB1B0508 and Furnaces 1 and 2, RMF10500 and RMF20501 combined.*~~

~~*(b) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of five hundred seven (507) million Btu per hour for Waste Heat Boiler 2 RB2B0509 and Furnaces 3 and 4 RMF30502 and RMF40503 combined.*~~

~~*(c) The remainder of the actual heat input shall be obtained by burning natural gas.*~~

~~*(d) Total actual heat input shall not exceed four hundred forty (440) million Btu per hour for each furnace, one hundred seventy (170) million Btu per hour for Waste Heat Boiler 1, RB1B0508 , and two hundred (200) million Btu per hour for Waste Heat Boiler 2, RB2B0509.*~~

~~*(e) The Waste Heat Boiler 1, RB1B0508 and Reheat Furnaces1and 2, RMF10500 and RMF20501 shall not exceed a total of 511.8 pounds per hour.*~~

~~*(f) The Waste Heat Boiler 2, RB2B0509 and Reheat Furnaces 3 and 4, RMF30502 and RMF40503 shall not exceed a total of 543.9 pounds per hour total.*~~

~~*(g) Fuel supplied to the reheat furnaces (coke oven gas, fuel oil, and natural gas) shall not result in a sulfur dioxide emission rate exceeding four hundred forty-seven thousandths (0.447) pounds per million Btu actual heat input.*~~

Pursuant to 326 IAC 7-4.1-20(a)(1)(E) and (F), during periods when the coke oven gas desulfurization unit is not operating:

During periods when Reheat Furnace Nos. 1, 2, 3 and 4 are not combusting coke oven gas	*Waste Heat Boiler Nos. 1 and 2* *Remaining Waste Heat Boiler*	*1.27 lbs/MMBtu* *0.704 lbs/MMBtu*	*287.0 lbs/hr* *159.0 lbs/hr*
Reheat Furnace Nos. 1, 2 ,3 and 4 during periods when combusting coke oven gas.	*When four (4) furnaces are operating* *When three (3) furnaces are operating* *When two (2) furnaces are operating* *When one (1) furnace is*	*0.256 lbs/MMBtu* *0.342 lbs/MMBtu* *0.513 lbs/MMBtu* *1.025 lbs/MMBtu*	*615.0 lbs/hr* *615.0 lbs/hr* *615.0 lbs/hr* *615.0 lbs/hr*

	operating		

Pursuant to 326 IAC 7-4.1-20(b)(6)(A) and (B), during periods when the coke oven gas desulfurization unit is operating:

Waste Heat Boiler Nos. 1 and 2		*0.260 lbs/MMBtu*	*58.8 lbs/hr each*
Reheat Furnace Nos. 1, 2, 3 and 4	*When four (4) furnaces are operating* *When three (3) furnaces are operating* *When two (2) furnaces are operating* *When one (1) furnace is operating*	*0.182 lbs/MMBtu* *0.243 lbs/MMBtu* *0.354 lbs/MMBtu* *0.728 lbs/MMBtu*	*436.5 Total* *436.5 Total* *436.5 Total* *436.5 Total*

Explanation: Citations and limitations corrected to incorporate newly revised SO_2 SIP.

Response to Comment 259

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.10.~~2~~ **4**Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(G)]~~ **[326 IAC 7-4.1-20]**

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(G)(i-iv), SO_2 emissions from the Reheat Furnace Nos.1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 and RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 shall comply with the following:~~

~~(a) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven (477) million Btu per hour for Waste Heat Boiler 1, RB1B0508 and Furnaces 1 and 2, RMF10500 and RMF20501 combined.~~

~~(b) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of five hundred seven (507) million Btu per hour for Waste Heat Boiler 2 RB2B0509 and Furnaces 3 and 4 RMF30502 and RMF40503 combined.~~

~~(c) The remainder of the actual heat input shall be obtained by burning natural gas.~~

~~(d) Total actual heat input shall not exceed four hundred forty (440) million Btu per hour for each furnace, one hundred seventy (170) million Btu per hour for Waste Heat Boiler 1, RB1B0508 , and two hundred (200) million Btu per hour for Waste Heat Boiler 2, RB2B0509.~~

~~(e) The Waste Heat Boiler 1, RB1B0508 and Reheat Furnaces1and 2, RMF10500 and RMF20501 shall not exceed a total of 511.8 pounds per hour.~~

~~(f) The Waste Heat Boiler 2, RB2B0509 and Reheat Furnaces 3 and 4, RMF30502 and RMF40503 shall not exceed a total of 543.9 pounds per hour total.~~

~~(g) Fuel supplied to the reheat furnaces (coke oven gas, fuel oil, and natural gas) shall not result in a sulfur dioxide emission rate exceeding four hundred forty-seven thousandths (0.447) pounds per million Btu actual heat input.~~

Pursuant to 326 IAC 7-4.1-20, SO_2 emissions from the Reheat Furnace Nos.1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 and RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 shall comply with the following:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(E) and (F), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit Operating Scenarios		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
During periods when Reheat Furnace Nos. 1, 2, 3 and 4 are not combusting coke oven gas	Waste Heat Boiler Nos. 1 or 2	1.270	287.0
	Remaining Waste Heat Boiler	0.704	159.0
Reheat Furnace Nos. 1, 2, 3 and 4 during periods when combusting coke oven gas.	When four (4) furnaces are operating	0.256	615.0
	When three (3) furnaces are operating	0.342	615.0
	When two (2) furnaces are operating	0.513	615.0
	When one (1) furnace is operating	1.025	615.0

(b) Pursuant to 326 IAC 7-4.1-20(b)(6)(A) and (B), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Waste Heat Boiler Nos. 1 and 2	NA	0.260	58.8 each
Continuous Reheat Furnace Nos. 1, 2, 3 and 4	When four (4) furnaces are operating	0.182	436.5 total
	When three (3) furnaces are operating	0.243	436.5 total
	When two (2) furnaces are operating	0.354	436.5 total
	When one (1) furnace is operating	0.728	436.5 total

Comment 260

Section D.10.3
USS requests the following corrections:

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities and any associated control devices~~ <u>any emissions</u>

control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 260

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the reheat furnaces, waste heat boilers and 84” hot strip mill themselves because lack of proper maintenance on these facilities can result in increased emissions. Therefore the permit is not revised as result of this comment.

Comment 261

Section D.10.4
USS requests the following corrections:

~~D.10.4 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]~~

~~(a) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.1.1, the Permittee shall perform PM_{10} testing on one of the Nos. 1, 2, 3 and 4 Continuous Reheat Furnace stacks RM6500, RM6501, RM6502 or RM6503, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration with no stack being tested in successive tests. All tests shall be performed in accordance with Section C - Performance Testing.~~

~~(b) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.10.1, the Permittee shall perform PM_{10} testing on one of the 84" Hot Strip Mill Waste Heat Boilers No. 1 Stack HB6504 and No. 2 Stack HB6505 using methods as listed in 326 IAC~~

~~6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.~~

Explanation: Testing for particulate matter at sources burning multiple gaseous fuels at Gary Works does not insure compliance because of the availability and mixture of various fuels. Compliance for particulate matter can best be determined using published emission factors for gaseous fuels which do not change significantly over time. We request deletion of this requirement since daily fuel usage and emissions are parametrically monitored and reported for the facility.

Response to Comment 261

Condition D.10.4 is renumbered D.10.6.

The boilers and reheat furnaces will be required to test to determine site specific emission factors for particulate matter for the various gaseous mixtures combusted at these facilities. Pursuant to 326 IAC 6.8-1-3 Compliance Determination, testing to determine the amount of particulate matter emitted from any facility subject to the requirements of 326 IAC 6.8 Particulate Matter Limitations for Lake County is required. Therefore, the permit is not revised as a result of this comment.

D.10.4**6** Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.1.1, the Permittee shall perform PM_{10} testing on one of the Nos. 1, 2, 3 and 4 Continuous Reheat Furnace stacks RM6500, RM6501, RM6502 or RM6503, using methods as listed in 326 IAC 6.8-4-1(1) or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration with no stack being tested in successive tests. All tests shall be performed in accordance with Section C - Performance Testing.

(b) Within thirty (30) months after issuance of this permit, or an alternative date as determined by OAQ, Compliance Data Section, in order to comply with condition D.10.1, the Permittee shall perform PM_{10} testing on one of the 84" Hot Strip Mill Waste Heat Boilers No. 1 Stack HB6504 and No. 2 Stack HB6505 using methods as listed in 326 IAC 6.8-4-1 or other methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.

Comment 262
Section D.10.8
USS requests the following corrections:

D.10.8 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters- Notification Requirements [40 CFR 63, Subpart DDDDD

(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include but are not limited to the following:

(1) An initial notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date (September 7, 2007) of 40 CFR

63, Subpart DDDDD (or within 120 days after the Permittee becomes subject to the regulations) as required by 40 CFR 63.7545(b) March 12, 2005.

(b) The notifications required by paragraph (a) shall be submitted to
Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204

The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Explanation: Addition of NESHAP language omitted in the permit.

Response to Comment 262

After further review IDEM has determined the specific NESHAP requirements for 40 CFR 63, Subpart DDDDD are not included, because the waste heat boilers are subject only to the notification requirements. US Steel – Gary Works already submitted the initial notifications for Waste Heat Boilers Nos. 1 and 2 on March 9, 2005. Therefore the permit is not revised as a result of this comment.

Comment 263

Section D.12, Facility Description
USS requests the following corrections:

(a) North Sheet Mill

(1) One (1) 5-Stand Cold Reduction Mil, identified as H5M50637, constructed in 1964, with a maximum capacity of ~~380~~ 400 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.

(2) Twenty-six (26) 4-Stack ABox@ Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of ~~10~~ 12 MMBtu per hour each. These furnaces are direct fired with emissions exhausting through vent pipes HT6530 through HT6555.

(3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of ~~213~~ 250 tons per hour, ~~exhausting~~ with fugitive emissions.

(4) One (1) 80-inch Recoil Line, constructed in1964, with a maximum capacity ~~114~~ 120 tons per hour ~~exhausting~~ with fugitive emissions.

Explanation: Correction to capacities and descriptions. The term "exhausting" implies a mechanical device.

(b) South Sheet Mill

(2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour. ~~Emissions exhaust through the Roof Monitor H26004~~. with fugitive emissions through Roof MonitorH26004.

(5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, ~~exhausting~~ with fugitive emissions.

(6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, ~~exhausting~~ with fugitive emissions

Explanation: The term "exhausting" implies a mechanical device.

(c) Electro-galvanizing Line (EGL)

(1) One (1) Electro-galvanizing Line (EGL), with one HCl pickle tank, No.1 Pickle tank, identified as HET20685, a cleaner section, a plating section and associated scrubber, with a maximum capacity of 60.5 tons per hour. ~~Emissions~~ Fume from the Pickle Section are controlled by a fume scrubber HE3583 exhausting through stack HE6563. The single sided process for this coating line was constructed in 1977 and was modified in 1993 to a double sided process for coating.

Explanation: Fumes from the pickler section are not regulated emissions. This is strictly a safety and hygiene control unit.

Response to Comment 263

Condition A.3 and Section D.12 description box are revised as follows:

(a) North Sheet Mill

(1) One (1) 5-Stand Cold Reduction Mil, identified as H5M50637, constructed in 1964, with a maximum capacity of ~~380~~ **400** tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.

(2) Twenty-six (26) 4-Stack ABox@ Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of ~~10~~ **12** MMBtu per hour each. These furnaces are direct fired with emissions exhausting through vent pipes HT6530 through HT6555.

(3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of ~~213~~ **250** tons per hour, ~~exhausting~~ **with** fugitive emissions.

(4) One (1) 80-inch Recoil Line, constructed in1964, with a maximum capacity ~~114~~ **120** tons per hour ~~exhausting~~ **with** fugitive emissions.

(b) South Sheet Mill

(2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour. ~~Emissions exhaust through the Roof Monitor H26004~~ **with fugitive emissions through Roof Monitor H26004.**

(5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, ~~exhausting~~ **with** fugitive emissions.

(6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, ~~exhausting~~ **with** fugitive emissions

(c) Electro-galvanizing Line (EGL)

(1) One (1) Electro-galvanizing Line (EGL), with one HCl pickle tank, No.1 Pickle tank, identified as HET20685, a cleaner section, a plating section and associated scrubber, with a maximum capacity of 60.5 tons per hour. ~~Emissions~~ **Fumes** from the Pickle Section are controlled by a fume scrubber HE3583 exhausting through stack HE6563. The single sided process for this coating line was constructed in 1977 and was modified in 1993 to a double sided process for coating.

Comment 264

Section D.12.5
USS requests the following corrections:

D.12.5 Sulfur Dioxide (SO_2) Limitations [326 IAC ~~7-4-1.1(a)~~ 7-4.1-20(c)(3)]

Pursuant to 326 IAC ~~7-4-1.1(a)~~ 7-4.1-20(c)(3~~), fossil fueled sources 4-stack "Box" Annealing Furnace. 8-Stack "Box" Annealing Furnaces, the No. 6 Galvanize Line and Galvaneal Furnaces and Hydrogen Batch Anneal Furnaces~~ gaseous fuel fired sources without specific limitations shall burn natural gas only.

Explanation: Correcting citation or incorporation of newly revised SIP.

Response to Comment 264

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.12.5 Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(a)]~~ **[326 IAC 7-4.1-20(c)(3)]**

~~Pursuant to 326 IAC 7-4-1.1(a), fossil fueled sources 4-stack "Box" Annealing Furnace. 8-Stack "Box" Annealing Furnaces, the No. 6 Galvanize Line and Galvaneal Furnaces and Hydrogen Batch Anneal Furnaces~~

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

Comment 265

Section D.12.6, Item (a)
USS requests the following corrections:

~~*(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7506(b). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.*~~

~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.12.9, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.*~~

The permit shield applies to Condition D.12.9, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.

Explanation: Pursuant to 40 CFR 63.7506(b), only initial notification requirements at 40 CFR 63.9(b)(2) apply to the affected boilers (large gaseous fueled units). They are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD. Therefore, the permit shield applies since this is the only condition applicable.

Response to Comment 265

After further review IDEM has added the general provisions of NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the EGL Boiler is an existing large gaseous fuel boiler and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.12.6 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

~~(a)~~ The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source: EGL Boiler, as designated by 40 CFR 63.7506(b). The Permittee must comply with ~~these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD~~ **the General Provision 40 CFR 63.9(b) Initial Notification Requirements.**

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.12.9, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.~~

Comment 266

Section D.12.7, Item (a)
USS requests the following corrections:

~~*(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.*~~

~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15*~~

~~*does not apply to paragraph (a) of this condition.*~~

~~*(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: EGL Boiler No. 1.*~~

~~*(d) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.*~~

Pursuant to 40 CFR 63.7506(b), the boiler at this facility is only subject to the initial notification requirements in 40 CFR 63.9(b)(2) and is not subject to any other requirements under 63, Subpart A or 40 CFR 63, Subpart DDDDD.

Explanation: NESHAP only requires initial notification for this boiler.

Response to Comment 266

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the EGL Boiler is an existing large gaseous boiler and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.12.7 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

(a) ~~The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~

~~(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: EGL Boiler No. 1.~~

(d) ~~The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.~~

Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: EGL Boiler is only subject to the initial notification requirements in 40 CFR 63.9(b).

Comment 267

Section D.12.8
USS requests the following corrections:

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~EGL Boiler House Boiler No.1~~ <u>any emission control devices at the facility.</u>

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of

this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 267

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the boilers themselves because lack of proper maintenance on these facilities can result in increased emissions. Therefore the permit is not revised as result of this comment.

Comment 268

Section D.12.9, Item (a)(1)
USS requests the following corrections:

(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD ~~as required by 40 CFR 63.7545(b~~) (or within 120 days after the Permittee becomes subject to the regulation) as required by 40 CFR 63.7545(b) by March 12, 2005.

~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).~~

~~(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).~~

~~(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).~~

~~*(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable*~~

~~*(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.*~~

Explanation: NESHAP only requires initial notification. No other reporting requirements apply. It should be noted that this requirement should be moved to Reporting Requirements Section.

Response to Comment 268

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the EGL Boiler is an existing large gaseous fuel boiler and subject only to the initial notification requirements. US Steel – Gary Works submitted the initial notification for the EGL Boiler on March 9, 2005. Therefore, the permit is revised as follows:

~~D.12.9 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]~~

~~(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for the large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:~~

~~(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b)~~

~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).~~

~~(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).~~

~~(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).~~

~~(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable~~

~~(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.~~

~~(b) The notifications required by paragraph (a) shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

Comment 269

Section D.12.10, Item (c)
USS requests the following corrections:

(c) To document compliance with Condition D.12.5, the Permittee shall maintain records of any ~~additional~~ inspections required by the Preventive Maintenance Plan.

Explanation: The term "additional" was deleted because all inspections under the PMP are required to be documented.

Response to Comment 269

Condition D.12.10 is renumbered D.12.9.

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

(c) ~~To document compliance with Condition D.12.5, the Permittee shall maintain records of any additional inspections required by the Preventive Maintenance Plan.~~

~~(d)~~ All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

Comment 270

Section D.13 Facility Description
USS requests the following corrections:

*(b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. **Fumes** ~~Emissions~~ are controlled by a fume scrubber exhausting to a stack.*

(c) Two (2) Annealing Lines, No. 1 and No. 2, each containing an annealing furnace, identified as T1AF0794 and T2AF0799, No.1 constructed in 1950 and No. 2 constructed in 1959, with a maximum heat input capacities of 32 and 35 MMBtu per hour, respectively. Emissions exhaust to stacks T16609 and T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes ~~emissions~~ collected in a fume scrubber exhausting through a stack.

(e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, with ~~exhausting~~ fugitive emissions. This unit has a dust filter that exhausts

inside the building.

(g) One (1) No.1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The chemical treatment rinse section, TFR00753 exhaust through stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661. ~~The TFS line contains a Chemical Treatment Tank, identified as TFT10752, exhausting to Roof Monitor, TF6661 and a Chemical treatment rinse, identified as TFR00753, exhausting to stack TF6597.~~

(h) One (1) No. 5 Electrolytic Tinning Line 5 (ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with fugitive emissions ~~exhausting~~ through Roof Monitor T56071.

(i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, with fugitive emissions ~~exhausting~~ through Roof Monitor T56071.

(j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, with fugitive emissions through roof monitor.

(k) One (1) 45" Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

Explanation: Items (b) and (c) were revised because fumes controlled by the scrubbers are not regulated emissions. The scrubber was installed for safety and industrial hygiene purposes. The word "exhausting" was deleted throughout where the term incorrectly implies the emissions pass through a mechanical device. Item (e) was revised because dust controlled by the baghouse is not regulated. The filter was installed for safety and industrial hygiene purposes.

Response to Comment 270

Condition A.3 and Section D.13 description box are revised. There is already an item (k) description for a one recoiler, so the side trimmer description is added as item (l). The permit is revised as follows:

(b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. **Fumes** ~~Emissions~~ are controlled by a fume scrubber exhausting to a stack.

(c) Two (2) Annealing Lines, No. 1 and No. 2, each containing an annealing furnace, identified as T1AF0794 and T2AF0799, No.1 constructed in 1950 and No. 2 constructed in 1959, with a maximum heat input capacities of 32 and 35 MMBtu per hour, respectively. Emissions exhaust to stacks T16609 and T26610. The No. 2 Continuous Anneal Line has a cleaning section with **fumes** ~~emissions~~ collected in a fume scrubber exhausting through a stack.

(e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, **with** ~~exhausting~~ fugitive emissions. This unit has a dust filter that exhausts inside the building.

(g) One (1) No.1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. **The chemical treatment rinse section, TFR00753 exhaust through**

stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661. ~~The TFS line contains a Chemical Treatment Tank, identified as TFT10752, exhausting to Roof Monitor, TF6661 and a Chemical treatment rinse, identified as TFR00753, exhausting to stack TF6597.~~

(h) One (1) No. 5 Electrolytic Tinning Line 5 (ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with **fugitive** emissions ~~exhausting~~ through Roof Monitor T56071.

(i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, **with fugitive emissions** ~~exhausting~~ through Roof Monitor T56071.

(j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, **with fugitive emissions through roof monitor.**

(l) One (1) 45" Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

Comment 271

Section D.13.2
USS requests the following corrections:

D.13.2 Sulfur Dioxide (SO_2) Limitations [326 IAC 7-4.1-20 ~~7-4-1.1(a)]~~

Pursuant to 326 IAC 7-4.1-20, gaseous fuel fired sources without specific limitations ~~7-4-1.1(a), fossil fueled sources, the No.1 Annealing Furnace (T1AF0794), No.2 Annealing Furnace T2AF0799 and the 4-Stack "Box" Annealing Furnaces TXAF0765 through TXAF0769~~ shall burn natural gas only.

Explanation: The regulatory citation was revised to incorporate the newly revised SIP.

Response to Comment 271

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.13.2 Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(a)]~~ **[326 IAC 7-4.1-20(c)(3)]**

~~Pursuant to 326 IAC 7-4-1.1(a), fossil fueled sources, the No.1 Annealing Furnace (T1AF0794), No.2 Annealing Furnace T2AF0799 and the 4-Stack "Box" Annealing Furnaces TXAF0765 through TXAF0769 shall burn natural gas only.~~

Pursuant to 326 IAC 7-4.1-20(c)(3) gaseous fuel sources shall burn natural gas only:

(a) if it is not listed in 326 IAC 7-4.1-20; or

(b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

Comment 272

Section D.14.1, Items (a)-(b)
USS requests the following corrections:

> ~~*(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7506(b). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.*~~
>
> ~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.14.9, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD Notification Requirements.*~~
>
> *The permit shield applies to Condition C, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD 0 Notification.*

Explanation: Pursuant to 40 CFR 63.7506(b), only initial notification requirements at 40 CFR 63.9(b)(2) apply to the affected boilers (large gaseous fueled units). They are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD. Therefore, the permit shield applies since this is the only condition applicable.

Response to Comment 272

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the No. 4 Boiler House Boilers Nos. 1, 2, and 3 are existing large gaseous fuel boilers and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.14.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

> (a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the **affected sources,** No. 4 Boiler House Boilers Nos. 1, 2 and 3, as designated by 40 CFR 63.7506(b). The Permittee must comply with ~~these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD~~ **the General Provision 40 CFR 63.9(b) Initial Notification Requirements.**
>
> ~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.12.9, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.~~

Comment 273

Section D.14.2, Item (a)-(e)
USS requests the following corrections:

~~*(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.*~~

~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.*~~

~~*(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: No. 4 Boiler House Boilers Nos. 1, 2 and 3.*~~

~~*(d) The following emissions units comprise the affected source for the limited use liquid fuel subcategory: No. 4 Boiler House Boilers Nos. 1 and 2.*~~

~~*(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.*~~

Pursuant to 40 CFR 63.7506(b), the boilers at this facility are only subject to the initial notification requirements in 40 CFR 63.9(b)(2) and is not subject to any other requirements under 40 CFR 63.7506(b)(2) and is not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD.

Explanation: Pursuant to 40 CFR 63.7506(b), only initial notification requirements at 40 CFR 63.9(b)(2) apply to the affected boilers (large gaseous fueled units). They are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD. Therefore, the permit shield applies since this is the only condition applicable.

Response to Comment 273

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the No. 4 Boiler House Boilers Nos. 1, 2, and 3 are existing large gaseous fueled boilers and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.14.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

~~(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15~~

~~does not apply to paragraph (a) of this condition.~~

~~(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: No. 4 Boiler House Boilers Nos. 1, 2 and 3.~~

~~(d) The following emissions units comprise the affected source for the limited use liquid fuel subcategory: No. 4 Boiler House Boilers Nos. 1 and 2.~~

~~(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.~~

(a) Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: No. 4 Boiler House Boilers No. 1, 2 and 3 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

(b) Pursuant to 40 CFR 63.7506(b), the existing limited use liquid fueled subcategory: No. 4 Boiler House Boilers No. 1 and 2 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

Comment 274

Section D.14.4
USS requests the following corrections:

D.14.4 Sulfur Dioxide (SO_2) Limitations [326 IAC ~~7-4-1.1(c)(22)(B)~~ 7-4.1-20

Pursuant to 326 IAC ~~7-4-1.1(c)(22)(B)~~ 7-4.1-20, the SO_2 emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 ~~shall not exceed 0.219 pounds per MMBtu of heat input~~ shall not exceed the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(B), during periods when the coke oven gas desulfurization unit is not operating:

During periods when No.13 Blast Furnace Stoves are combusting blast furnace gas	*When three (3) boilers are operating:* *When two (2) boilers are operating:* *When one (1) boiler is operating:*	*0.115 lbs/mmbtu* *0.173 lbs/mmbtu* *0.345 lbs/mmbtu*	*172.5 lbs/hr total* *172.5 lbs/hr total* *172.5 lbs/hr total*
During periods when No.13 Blast Furnace Stoves are not combusting blast furnace gas and the Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are combusting coke oven gas :	*When three (3) boilers are operating:* *When two (2) boilers are operating:* *When one (1) boiler is operating:*	*0.200 lbs/mmbtu* *0.300 lbs/mmbtu* *0.600 lbs/mmbtu*	*300.0 lbs/hr total* *300.0 lbs/hr total* *300.0 lbs/hr total*
During periods when No.13 Blast Furnace Stoves are not combusting blast	*When three (3) boilers are operating:* *When two (2) boilers are operating:*	*0.195 lbs/mmbtu* *0.293 lbs/mmbtu*	*293.0 lbs/hr total* *293.0 lbs/hr total*

furnace gas and the Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are not combusting coke oven gas :	*When one (1) boiler is operating:*	*0.586 lbs/mmbtu*	*293.0 lbs/hr total*

(b) Pursuant to 326 IAC 7-4.1-20(b)(2), during periods when the coke oven gas desulfurization unit is operating:

When three (3) boilers are operating:	*0.353 lbs/mmbtu*	*529.0 lbs/hr total*
When two (2) boilers are operating:	*0.529 lbs/mmbtu*	*529.0 lbs/hr total*
When one (1) boiler is operating	*1.058 lbs/mmbtu*	*529.0 lbs/hr total*

Explanation: Corrections to citations and limitations pursuant to the newly revised SIP.

Response to Comment 274

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.14.4 Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(B)]~~ **[326 IAC 7-4.1-20]**

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(B), the SO_2 emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall not exceed 0.219 pounds per MMBtu of heat input.~~

Pursuant to 326 IAC 7-4.1-20, the SO_2 emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall not exceed the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(B), during periods when the coke oven gas desulfurization unit is not operating:

Emission Unit Operating Scenarios		**Emission Limit Lbs/MMBtu**	**Emission Limit Lb/hr**
During periods when No.14 Blast Furnace Stoves are combusting blast furnace gas	**When three (3) boilers are operating:**	**0.115**	**172.5 total**
	When two (2) boilers are operating:	**0.173**	**172.5 total**
	When one (1) boiler is operating:	**0.345**	**172.5 total**
During periods when No.14 Blast Furnace Stoves are not combusting blast furnace gas and the	**When three (3) boilers are operating:**	**0.200**	**300.0 total**
	When two (2) boilers are operating:	**0.300**	**300.0 total**

Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are combusting coke oven gas :	**When one (1) boiler is operating:**	**0.600**	**300.0 total**
During periods when No.14 Blast Furnace Stoves are not combusting blast furnace gas and the Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 are not combusting coke oven gas :	**When three (3) boilers are operating:**	**0.195**	**293.0 total**
	When two (2) boilers are operating:	**0.293**	**293.0 total**
	When one (1) boiler is operating:	**0.586**	**293.0 total**

(b) Pursuant to 326 IAC 7-4.1-20(b)(2), during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios	Emission Limit Lbs/MMBtu	Emission Limit lb/hr
When three (3) boilers are operating:	**0.353**	**529.0 total**
When two (2) boilers are operating:	**0.529**	**529.0 total**
When one (1) boiler is operating	**1.058**	**529.0 total**

Comment 275

Section D.14.5
USS requests the following corrections:

D.14.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities~~ for any emission control devices at this facility.

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 275

The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

(1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the

inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that ".as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section." Many types of facilities require maintenance in order to prevent excess emissions. In addition to preventive maintenance performed on the control devices, preventive maintenance should be performed on the boiler, themselves because lack of proper maintenance on these facilities can result in increased emissions. Therefore the permit is not revised as result of this comment.

Comment 276

Section D.14.6
USS requests the following corrections:

~~D.14.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]~~

~~Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.14.4, the Permittee shall perform PM_{10} testing on the No. 4 Boiler House Boilers when all three boilers are operating, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.~~

Explanation: Testing for particulate matter sources burning multiple gaseous fuels at Gary Works does not insure compliance because of the availability and mixtures of various fuels. Compliance for particulate matter can best be determined using published emission factors for gaseous fuels which do not change significantly over time. We request deletion of this requirement since daily fuel usage and emissions are parametrically monitored and reported for the facility.

Response to Comment 276

The No. 4 Boiler House Boilers Nos. 1, 2 and 3 will be required to test to determine site specific emission factors for particulate matter for the various gaseous mixtures combusted at these facilities. Pursuant to 326 IAC 6.8-1-3 Compliance Determination, testing to determine the amount of particulate matter emitted from any facility subject to the requirements of 326 IAC 6.8 Particulate Matter Limitations for Lake County is required. Therefore, the permit is not revised as a result of this comment.

Comment 277

Section D.14.7
USS requests the following corrections:

D.14.7 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis [326 IAC ~~7-4-1.1(d)~~7-4.1-2]

Pursuant to 326 IAC ~~7-4-1.1(d)~~7-4.1-2, and in order to comply with conditions D.14.4, the

Permittee shall follow the Sulfur Dioxide (SO_2) Fuel Sampling and Analysis protocol in Section C - Sulfur Dioxide (SO_2) Fuel Sampling and Analysis of this permit.

Response to Comment 277

For the condition name change refer to IDEM response to EPA comment 12.

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.14.7 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [~~326 IAC 7-4-1.1(d)~~] **[326 IAC 7-4.1-2]**

~~Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with conditions D.14.4, the Permittee shall follow the Sulfur Dioxide (SO_2) Fuel Sampling and Analysis protocol in Section C - Sulfur Dioxide (SO_2) Fuel Sampling and Analysis of this permit.~~

Pursuant to 326 IAC 7-4.1-2, and in order to comply with conditions D.14.3, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol in Section C - Sulfur Fuel Sampling and Analysis of this permit.

Comment 278

Section D.14.8, Item (a)(1)
USS requests the following corrections:

(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD <u>or within 120 days after the Permittee becomes subject to the regulation)</u> as required by 40 CFR 63.7545(b) by March 12, 2005.

~~*(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).*~~

~~*(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).*~~

~~*(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).*~~

~~*(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable*~~

~~*(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.*~~

Explanation: Only initial notification requirements apply to these boilers. All other requirements are deleted. Clarification of the due date of the notification had been added. Also, Section D.14.8 should be moved to the Reporting Requirements.

Response to Comment 278

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the No. 4 Boiler House Boilers Nos. 1, 2, and 3 are existing large gaseous fueled boilers and subject only to the initial notification requirements. US Steel – Gary Works submitted the initial notification for No. 4 Boiler House Boilers Nos. 1, 2 and 3 to IDEM on March 9, 2005. Therefore the permit is revised as follows:

~~D.14.8 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]~~

~~(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for the large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:~~

~~(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b).~~

~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).~~

~~(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).~~

~~(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).~~

~~(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable~~

~~(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.~~

~~(b) The notifications required by paragraph (a) shall be submitted to:~~
~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204-2251~~

~~The notifications require the certification by the "responsible official" as defined by 326~~

~~IAC 2-7-1(34).~~

Comment 279

Section D.14.9, Item (b)
USS requests the following corrections:

*(b) To document compliance with Conditions D.14.5, the Permittee shall maintain records of the ~~additional~~ inspections prescribed by the Preventive Maintenance Plan***.**

Explanation: The term additional was deleted because all inspections under the PMP are required to be documented.

Response to Comment 279

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

D.14.9 Record Keeping Requirements

(a) To document compliance with Condition D.14.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

~~(b) To document compliance with Conditions D.14.5, the Permittee shall maintain records of the additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(c)~~ **(b)** To document compliance with Conditions D.14.8, the Permittee shall maintain records of the once per ~~shift~~ **day** visible emission notations when Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil and natural gas or blast furnace gas.

~~(d)~~ **(c)** All records shall be maintained in accordance with Section C - General Record Keeping requirements, of this permit.

Comment 280

Section D.14.11
USS requests the following corrections:

~~*D.14.11Natural Gas Fired Boiler Certification*~~

~~*A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, for the Number 4 Boiler House Boilers Nos. 1, 2 and 3, five hundred (500) million British Thermal unit per hour (MMBtu/hr) natural gas fired boilers. This report shall be submitted in accordance with Section C- General Reporting Requirements of this permit. This report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).*~~

Response to Comment 280

Natural Gas certifications are required in lieu of visible emissions requirements. If the source uses multiple fuels that have potential to emit particulate, VE notations would be required. However if particulate matter emissions are considered low such as when burning natural gas, VE notations can be waived and replaced with this certification. Therefore, the permit is not revised as a result of this comment.

Comment 281

Section D.15 Facility Description
USS requests the following corrections:

(a) *Three (3) Boilers, No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of ~~400~~ 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.*

Explanation: Correcting the capacity in accordance with the values used in SIP model.

(b) *One (1) Boiler, No. 4A, identified as OTB40465, constructed in 1990, with a maximum heat input of 244 MMBtu per hour when combusting natural gas ~~and coke oven gas~~. Emissions exhaust through Stack OT6274, with NOx emissions monitored by a Predictive Emissions Monitoring System (PEMS).*

Explanation: Correction to process description, this boiler does not burn COG.

(c) *One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of ~~450~~ 410 MMBtu per hour, exhausting through Stack OT6275.*

Explanation: Correcting the capacity in accordance with the values used in SIP model.

Response to Comment 281

Condition A.3 and Section D.15 description are revised as follows:

(a) Three (3) Boilers, No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of ~~400~~ **410** MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler, No. 4A, identified as OTB40465, constructed in 1990, with a maximum heat input of 244 MMBtu per hour when combusting natural gas ~~and coke oven gas~~. Emissions exhaust through Stack OT6274, with NOx emissions monitored by a Predictive Emissions Monitoring System (PEMS).

(c) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of ~~450~~ **410** MMBtu per hour, exhausting through Stack OT6275.

Comment 282

Section D.15.1
USS requests the following corrections:

~~*(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7506(b). The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.*~~

~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.15.14, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.*~~

The permit shield applies to Condition D.15.~~11~~ 13 , National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD- Notification requirements.

Explanation: Pursuant to 40 CFR 63.7506(b), only initial notification requirements at 40 CFR 63.9(b)(2) apply to the affected boilers (large gaseous fueled units). They are mot subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD. Therefore, the permit shield applies since this is the only condition applicable.

Response to Comment 282

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 are existing large gaseous and liquid fueled boilers and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.15.1 General Provisions Relating to Hazardous Air Pollutants (HAPs) [326 IAC 20-1][40 CFR 63, Subpart A] [Table 10 to 40 CFR 63, Subpart DDDDD]

~~(a)~~ The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source**s**, **TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6,** as designated by 40 CFR 63.7506(b). The Permittee must comply with ~~these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD~~ **the General Provision 40 CFR 63.9(b) Initial Notification Requirements.**

(b) ~~Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition. The permit shield applies to Condition D.15.14, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD-Notification Requirements.~~

Comment 283

Section D.15.2
USS requests the following corrections:

~~*(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.*~~

~~*(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.*~~

~~*(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: Turboblower Boiler House Boilers Nos. 1, 2, 3, 4A, 5, and 6.*~~

~~*(d) The following emissions units comprise the affected source for the limited liquid fuel subcategory Turboblower Boiler House Boilers Nos. 1, 2, 3 and 5.*~~

~~*(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.*~~

Pursuant to 40 CFR 637506(b), the boilers at this facility are only subject to the initial notification requirements in 40 CFR 63.9(b)(2) and is not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD.

Explanation: Pursuant to 40 CFR 63.7506(b), only initial notification requirements at 40 CFR 63.9(b)(2) apply to the affected boilers (large gaseous fueled units). They are not subject to any other requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD. Therefore, the permit shield applies since this is the only condition applicable.

Response to Comment 283

After further review IDEM has shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD because the TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 are existing large gaseous and liquid fueled boilers and subject only to the initial notification requirements. Therefore the permit is revised as follows:

D.15.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart DDDDD]

~~(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the effective date of 40 CFR 63, Subpart DDDDD.~~

~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~

~~(c) The following emissions units comprise the affected source for the large gaseous fuel subcategory: Turboblower Boiler House Boilers Nos. 1, 2, 3, 4A, 5, and 6.~~

~~(d) The following emissions units comprise the affected source for the limited liquid fuel subcategory Turboblower Boiler House Boilers Nos. 1, 2, 3 and 5.~~

~~(e) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.~~

(a) Pursuant to 40 CFR 63.7506(b), the existing large gaseous fuel subcategory: TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

(b) Pursuant to 40 CFR 63.7506(b)(2), the existing limited use liquid fueled subcategory: TurboBlower Boiler House Boilers Nos. 1, 2, 3 and 5 are subject only to the initial notification requirements in 40 CFR 63.9(b)(2).

Comment 284

Section D.15.3
USS requests the following corrections:

> *The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, ~~apply to the facility described in this section~~ applies to the No. 6 Boiler except when otherwise specified in 40 CFR Part 60, Subpart D and applies to No. 4A boiler, except when otherwise specified in 40 CFR 60, Subpart Db. .*

Explanation: Correcting NSPS applicability as it only applies to certain boilers.

Response to Comment 284

To clarify which new source performance standards apply to which boilers. The permit is revised as follows:

> The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, ~~apply to the facility described in this section~~ **applies to the No. 6 Boiler** except when otherwise specified in 40 CFR Part 60, Subpart D **and applies to No. 4A boiler, except when otherwise specified in 40 CFR 60, Subpart Db.**

Comment 285

Section D.15.5, Item (e)
USS requests the following corrections

> *(e) The PM_{10} emissions from the TBBH Boiler No. 6 Stack OT6276, shall not exceed 0.~~00.~~039 pound per MMBtu of heat input and 27.80 pounds per hour.*

Explanation: Correcting an assumed typographical error.

Response to Comment 285

The typo is corrected. Also, duplicate language is deleted from Item (d). The permit is revised as follows:

(d) The PM_{10} emissions from the TBBH Boiler No.4A stack OT6274, ~~the PM10 emissions~~ shall not exceed 0.012 pound per MMBtu of heat input ~~each~~ and 2.9 pounds per hour.

(e) The PM_{10} emissions from the TBBH Boiler No. 6 Stack OT6276, shall not exceed ~~0.00.039~~ **0.039** pound per MMBtu of heat input and 27.80 pounds per hour.

Comment 286

Section D.15.6
USS requests the following corrections

D.15.6 Sulfur Dioxide (SO_2) Limitations [326 IAC ~~7-4-1.1(c)(22)(A)~~ 7-4.1-20]

Pursuant to 326 IAC ~~7-4-1.1(c)(22)(A)~~ 7-4.1-20, the SO_2 emissions from each of the TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 Stacks OT6271, OT6272, OT6273,OT6274, OT6275 and OT6276 shall not exceed ~~0.269 pounds per MMBtu of heat input~~ the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20(a)(1)(A) and (b)(1)(B), the sulfur dioxide emissions from the No. 6 Boiler Stack shall not exceed 0.115 lbs/mmbtu and 81.7 lbs/hr.

(b) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(i), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are not combusting coke oven gas:

Jan - Apr	*When four (4) boilers are operating*	*0.594 lbs/mmbtu*	*974.5 lbs/hr total*
	When three (3) boilers are operating	*0.792 lbs/mmbtu*	*974.5 lbs/hr total*
	When two (2) boilers or less are operating	*1.188 lbs/mmbtu*	*974.5 lbs/hr total*
May - Oct	*When four (4) boilers are operating*	*1.006 lbs/mmbtu*	*1650.0 lbs/hr total*
	When three (3) boilers are operating	*1.341 lbs/mmbtu*	*1650.0 lbs/hr total*
	When two (2) boilers or less are operating	*2.012 lbs/mmbtu*	*1650.0 lbs/hr total*
Nov - Dec	*When four (4) boilers are operating*	*0.384 lbs/mmbtu*	*630.0 lbs/hr total*
	When three (3) boilers are operating	*0.512 lbs/mmbtu*	*630.0 lbs/hr total*
	When two (2) boilers or less are operating	*0.768 lbs/mmbtu*	*630.0 lbs/hr total*

(c) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(ii), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are combusting coke oven gas:

Jan -Apr	*When four (4) boilers are operating*	*0.625 lbs/mmbtu*	*1025.00 lbs/hr total*
	When three(3) boilers are operating	*0.833 lbs/mmbtu*	*1025.00 lbs/hr total*
	When two (2) boilers or less are operating	*1.250 lbs/mmbtu*	*1025.00 lbs/hr total*
May - Oct	*When four (4) boilers are operating*	*0.994 lbs/mmbtu*	*1630.0 lbs/hr*
	When three(3) boilers are operating	*1.325 lbs/mmbtu*	*1630.0 lbs/hr*
	When two (2) boilers or less are operating	*1.988 lbs/mmbtu*	*1630.0 lbs/hr*
Nov - Dec	*When four (4) boilers are operating*	*0.351 lbs/mmbtu*	*575.0 lbs/hr*
	When three(3) boilers are operating	*0.467 lbs/mmbtu*	*575.0 lbs/hr*
	When two (2) boilers or less are operating	*0.701 lbs/mmbtu*	*575.0 lbs/hr*

(d) Pursuant to 326 IAC 7-4.1-20(b)(1)(A), the sulfur dioxide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is operating:

When four (4) boilers are operating	*0.427 lbs/mmbtu*	*700.0 lbs/hr total*
When three(3) boilers are operating	*0.569 lbs/mmbtu*	*700.0 lbs/hr total*
When two (2) boilers or less are operating	*0.854 lbs/mmbtu*	*700.0 lbs/hr total*

Explanation: Correcting limitations to reflect newly revised SIP.

Response to Comment 286

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.15.6 Sulfur Dioxide (SO_2) Limitations ~~[326 IAC 7-4-1.1(c)(22)(A)]~~ **[326 IAC 7-4.1-20]**

~~Pursuant to 326 IAC 7-4-1.1(c)(22)(A), the SO_2 emissions from each of the TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 Stacks OT6271, OT6272, OT6273,OT6274, OT6275 and OT6276 shall not exceed 0.269 pounds per MMBtu of heat input.~~

Pursuant to 326 IAC 7-4.1-20, the SO_2 emissions from each of the TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 Stacks OT6271, OT6272, OT6273,OT6274, OT6275 and OT6276 shall not

exceed the following limitations:

(a) Pursuant to 326 IAC 7-4.1-20)(c)(3), sulfur dioxide limits are not specifically listed for Boiler No. 4A. In accordance with this rule, Boiler No, 4A shall burn natural gas only.

(b) Pursuant to 326 IAC 7-4.1-20(a)(1)(A) and (b)(1)(B), the sulfur dioxide emissions from the No. 6 Boiler Stack shall not exceed 0.115 lbs/MMBtu and 81.7 lbs/hr.

(c) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(i), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are not combusting coke oven gas:

Emission Unit Operating Scenario		Emission Limit Lbs/MMBtu	Emission Limit lbs/hr
Jan - Apr	When four (4) boilers are operating	0.594	974.5 total
	When three (3) boilers are operating	0.792	974.5 total
	When two (2) boilers or less are operating	1.188	974.5 total
May - Oct	When four (4) boilers are operating	1.006	1650.0 total
	When three (3) boilers are operating	1.341	1650.0 total
	When two (2) boilers or less are operating	2.012	1650.0 total
Nov - Dec	When four (4) boilers are operating	0.384	630.0 total
	When three (3) boilers are operating	0.512	630.0 total
	When two (2) boilers or less are operating	0.768	630.0 total

(d) Pursuant to 326 IAC 7-4.1-20(a)(2)(A)(ii), the sulfur dio0xide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is not operating and the Hot Strip Mill Waste Heat Boiler Nos. 1 and 2 are combusting coke oven gas:

Emission Unit Operating Scenario		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Jan -Apr	When four (4) boilers are operating	0.625	1025.00 total
	When three(3) boilers	0.833	1025.00 total

	are operating **When two (2) boilers or less are operating**	**1.250**	**1025.00 total**
May - Oct	**When four (4) boilers are operating** **When three(3) boilers are operating** **When two (2) boilers or less are operating**	**0.994** **1.325** **1.988**	**1630.0 total** **1630.0 total** **1630.0 total**
Nov - Dec	**When four (4) boilers are operating** **When three(3) boilers are operating** **When two (2) boilers or less are operating**	**0.351** **0.467** **0.701**	**575.0 total** **575.0 total** **575.0 total**

(e) Pursuant to 326 IAC 7-4.1-20(b)(1)(A), the sulfur dioxide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following during periods when the coke oven gas desulfurization unit is operating:

Emission Unit Operating Scenarios	**Emission Limit lbs/MMBtu**	**Emission Limit lbs/hr**
When four (4) boilers are operating	**0.427**	**700.0 total**
When three(3) boilers are operating	**0.569**	**700.0 total**
When two (2) boilers or less are operating	**0.854**	**700.0 total**

Comment 287

Section D.15.7, Item (b)
USS requests the following corrections

(b) ~~When combusting~~ ~~n~~Natural gas ~~the~~ usage shall be limited to 1,059.7 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit will also preclude the Permittee from the requirement to install a continuous emissions monitor (CEM) for NOx.

Explanation: This is the total natural gas limit whether only burning natural gas or mixed gas.

Response to Comment 287

To clarify the total amount of gaseous fuel burned in Boiler No. 6, the permit is revised as follows:

(b) ~~When combusting n~~ **Natural** gas ~~the~~ usage shall be limited to 1,059.7 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit will also preclude the Permittee from the requirement to install a continuous emissions monitor (CEM) for NOx.

Comment 288

Section D.15.8, Item (b)(1)
USS requests the following corrections

> *(1) NO_x emissions from TBBH Boiler No. 6 Stack OT6276 shall not exceed 0.20 pound per MMBtu of heat input, when the boiler is burning natural gas only. Compliance will be demonstrated by meeting the limitation specified in D.15.7(a).*

Explanation: The limitation in Condition D.15.7(a) is more stringent than the NSPS limitation, therefore demonstration is applicable under the more stringent limitation as provided by reference here.

Response to Comment 288

Condition D.15.8(b)(1) is renumbered D.15.8(b). The requested language cannot be added to the permit because the limitation in Condition D.15.8(b) and the limitation in 40 CFR 60, Subpart D are different applicable requirements. In order to streamline the applicable requirements for a unit the Permittee must follow the provisions 326 IAC 2-7-24 (Establishment of streamlined requirements for units subject to multiple requirements).

IDEM has revised Condition D.15.8(b) for clarification as follows:

> (b) Pursuant to Minor Source Modification 089-10160-00121, issued January 13, 2000, 326 IAC 12 and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction or modification is Commenced After August 17, 1971), NOx emissions from the Turboblower Boiler House (TBBH) Boiler No. 6 ~~shall comply with the following:~~
>
> ~~(1)~~ ~~NO_x emissions from TBBH Boiler No. 6~~ Stack OT6276 shall not exceed 0.20 pound per MMBtu of heat input, when the boiler is burning natural gas only.

Comment 289

Section D.15.9
USS requests the following corrections:

> *A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~these facilities~~ any emission control devices at this facility.*

Explanation: In accordance with 326 IAC 1-6-3, preventive maintenance plans involve the inspection, maintenance and repair of emission control devices, not entire operations or processes. A requirement of this magnitude for the entire facility or process is gravely over burdensome and beyond the legally established regulations.

Response to Comment 289

> The Preventive Maintenance Plan requirement must be included in every applicable Title V permit pursuant to 326 IAC 2-7-5(13). This rule refers back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:
>
> (1) Identification of the individuals responsible for inspecting, maintaining and repairing the

emission control equipment (326 IAC 1-6-3(a)(1)),

(2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and

(3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. 326 IAC 1-6-3(b) provides that "as deemed necessary by the commissioner, any person operating a facility shall comply with the requirements of subsection (a) of this section."

Comment 290

Section D.15.10, Item (a)
USS requests the following corrections:

~~*D.15.10 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]*~~

~~*(a) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boilers Nos. 1, 2, 3 and 5 when all four boilers are operating, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*~~

~~*(b) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boiler No. 4A when burning natural gas alone and when burning coke oven gas alone, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*~~

~~*(c) Within twelve (12) months after issuance of this permit or two and one-half (2 ½) years from the date of the last compliance test which ever is earlier, in order to demonstrate compliance with Condition D.15.5, the Permittee shall perform PM_{10} testing on the Turboblower Boiler House Boiler No. 6 when burning blast furnace gas on the main burners alone and natural gas on the pilots, using methods as listed in 326 IAC 6-1-10.1(f) or other methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration. All tests shall be performed in accordance with Section C - Performance Testing.*~~

Explanation: Testing for particulate matter sources burning multiple gaseous fuels at Gary Works does not insure compliance because of the availability and mixtures of various fuels. Compliance for particulate matter can best be determined using published emission factors for gaseous fuels which do not change significantly over time. We request deletion of this requirement since daily fuel usage and

emissions are parametrically monitored and reported for the facility.

Response to Comment 290

The TBBH Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 will be required to test to determine site specific emission factors for particulate matter for the various gaseous mixtures combusted at these facilities. Pursuant to 326 IAC 6.8-1-3 Compliance Determination, testing to determine the amount of particulate matter emitted from any facility subject to the requirements of 326 IAC 6.8 Particulate Matter Limitations for Lake County is required. Therefore, the permit is not revised as a result of this comment.

Comment 291

Section D.15.11
USS requests the following corrections:

D.15.11 Sulfur Dioxide (SO_2) Fuel Sampling and Analysis [326 IAC ~~7-4-1.1(d)~~ 7-4.1-2]

The Permittee shall perform Sulfur Dioxide (SO_2) Fuel Sampling and Analysis in accordance with Section C - Sulfur Dioxide (SO_2) Sampling and Analysis, in order to demonstrate compliance with Condition D.15.6.

Response to Comment 291

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.15.11 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis ~~[326 IAC 7-4-1.1(d)]~~ **[326 IAC 7-4.1-2]**

~~The Permittee shall perform Sulfur Dioxide (SO_2) Fuel Sampling and Analysis in accordance with Section C - Sulfur Dioxide (SO_2) Sampling and Analysis, in order to demonstrate compliance with Condition D.15.6.~~

Pursuant to 326 IAC 7-4.1-2, and in order to comply with conditions D.15.6, the Permittee shall follow the Sulfur Fuel Sampling and Analysis protocol in Section C - Sulfur Fuel Sampling and Analysis of this permit.

Comment 292

Section D.15.12
USS requests the following corrections:

D.15.12 Nitrogen Oxide (NOx) Emissions Monitoring for No. 4A Boiler [40 CFR 60.48b]

Explanation: Providing a clarification as to which boiler this condition applies.

Response to Comment 292

Condition D.15.12 title and table of contents are changed to clarify which boiler has specific nitrogen oxide monitoring requirements. The permit is revised as follows:

D.15.12 Nitrogen Oxide (NOx) Emissions Monitoring **for No. 4A Boiler** [40 CFR 60.48b]

Comment 293

Section D.15.12, Item, (a)
USS requests the following corrections:

> *(a) Pursuant to 40 CFR 60.48b, the Permittee shall calibrate, maintain, and operate all necessary Predictive emission monitoring systems (PEMS) at ~~and~~ Boiler No. 4A stack OT6274.*

Explanation: Clarifying language in condition.

Response to Comment 293

To clarify language in Condition D.15.12(a), the permit is revised as follows:

> (a) Pursuant to 40 CFR 60.48b, the Permittee shall calibrate, maintain, and operate all necessary Predictive emission monitoring systems (PEMS) **at** ~~and~~ Boiler No. 4A stack OT6274.

Comment 294

Section D.15.12, Item, (b)
USS requests the following corrections:

> *(b) The Permittee shall comply with Conditions D.15.8(a) on an on going basis using the Predictive Emissions Monitoring System (PEMS) to ~~predict~~ measure NOx emission rates by monitoring the steam generating operating conditions as specified in a plan submitted to and approved by IDEM, OAQ, pursuant to 40 CFR 60.49b(c).*

Explanation: The actual emissions are measured with the PEMS not predicted.

Response to Comment 294

To clarify that actual emissions are measured by the PEMS, not predicted, the permit is revised as follows:

> (b) The Permittee shall comply with Conditions D.15.8(a) on an on going basis using the Predictive Emissions Monitoring System (PEMS) to ~~predict~~ **measure** NOx emission rates by monitoring the steam generating operating conditions as specified in a plan submitted to and approved by IDEM, OAQ, pursuant to 40 CFR 60.49b(c).

Comment 295

Section D.15.12, Item, (d)
USS requests the following corrections:

> *(d) The Permittee shall have replacement parts such as flow meters or oxygen meters on hand, in the event a malfunction of the PEMS occurs.*
>
> ~~*(e) The Permittee shall develop and implement a quality control (QC) and quality assurance (QA) program pursuant to the requirements of 40 CFR Part 60 Appendix F.*~~
>
> ~~*(f) Nothing in this permit shall excuse the Permittee from complying with the requirements to*~~

~~*operate a continuous emission monitoring system pursuant to the requirements of 40 CFR Part 60, Appendix F.*~~

Explanation: 40 CFR 60, Appendix F only applies to CEMS, not parametric monitoring.

Response to Comment 295

40 CFR 60, Appendix F applies only to the Continuous Emissions Monitoring (CEM) devices. Predictive Emission Monitoring (PEMS) devices are not considered (CEMS). Therefore, the permit is revised as follows:

~~(e) The Permittee shall develop and implement a quality control (QC) and quality assurance (QA) program pursuant to the requirements of 40 CFR Part 60 Appendix F.~~

~~(f) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to the requirements of 40 CFR Part 60, Appendix F.~~

Comment 296

Section D.15.13, Item, (a)(1)
USS requests the following corrections:

(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date (September 13, 2004) of 40 CFR 63, Subpart DDDDD ~~as required by 40 CFR 63.7545(b)~~ or within 120 days after the Permittee becomes subject to the regulation as required by 40 CFR 63.7545(b) by March 12, 2005.

~~*(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).*~~

~~*(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).*~~

~~*(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).*~~

~~*(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable*~~

~~*(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.*~~

Explanation: Clarifying the effective date and due date of the notification. Only the initial notification requirements apply to the existing boilers.

Response to Comment 296

Condition D.15.13 is renumbered D.15.14.

Upon further review IDEM shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, because the TurboBlower Boiler House Boilers Nos. 1, 2, 3, 4A, 5 and 6 are existing large gaseous and liquid fueled boilers and subject only to the initial notification requirements. US Steel – Gary Works submitted the initial notification for the Turboblower Boiler House Boilers Nos. 1, 2, 3, 4 a, 5 and 6 to IDEM on March 9, 2005. Therefore the permit is revised as follows:

~~D.15.14 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]~~

~~(a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.9(b)(2) that apply to the affected sources for the large gaseous fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:~~

~~(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b).~~

~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).~~

~~(3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).~~

~~(A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).~~

~~(B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable~~

~~(4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.~~

~~(b) The notifications required by paragraph (a) shall be submitted to:~~

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251~~

~~The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

Comment 297

Section D.15.14, Item, (c)
USS requests the following corrections:

> *(c) ~~(e)~~ To document compliance with TBBH Boilers 4A, condition D.15.7(a), the Permittee shall maintain records required under 40 CFR 60.49b(c) ~~(f)~~ (g) and (h), as applicable.*

Explanation: Section f of this rule refers to solid fuel.

Response to Comment 297

The requirement in 40 CFR 60.49b(f) is for solid fuel. USS does not combust solid fuel in Boiler 4A. The condition is also renumbered D.15.15, because a requirement was added to conduct visible emission notations when Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil and natural gas, blast furnace gas or coke oven gas (See IDEM, OAQ Change 9). Therefore, the permit is revised as follows:

> **(c)** ~~(e)~~ To document compliance with TBBH Boilers 4A, condition D.15.7(a), the Permittee shall maintain records required under 40 CFR 60.49b(c) ~~(f)~~ (g) and (h), as applicable.

Comment 298

Section D.15.14, Item (d)
USS requests the following corrections:

> *(d) ~~(f)~~ To document compliance with Conditions D.15.9, the Permittee shall maintain records of the additional inspections prescribed by the Preventive Maintenance Plan.*

Explanation: Numeric correction.

Section D.15.14, Item, (e)
USS requests the following corrections:

> *(e) ~~(g)~~ To document compliance with Conditions D.15.13, the Permittee shall maintain records of once per shift visible emission notations when Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil and natural gas, blast furnace gas or coke oven gas*

Explanation: Numeric correction.

Response to Comment 298

Condition D.15.14(d) and (e) are renumbered D.15(d).

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

> ~~(f) To document compliance with Conditions D.15.9, the Permittee shall maintain records of the additional inspections prescribed by the Preventive Maintenance Plan.~~

(d) ~~(g)~~ To document compliance with Conditions D.15.13, the Permittee shall maintain records of once per day visible emission notations when Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil and natural gas, blast furnace gas or coke oven gas

Comment 299

Section D.15.15, Item, (c)
USS requests the following corrections:

(c) If the Permittee elects to document compliance with condition D.15.8, either by monitoring of steam generating unit operating conditions or by operating a predictive emission monitoring system (PEMS) for NO_x emissions on No. 4A Boiler, the Permittee shall also submit reports as required under 40 CFR 60.49b(b) and (h) ~~and (q)~~.

Explanation: Section q of this rule refers to annual capacity factors which are not utilized here for fuel oil. We are exempt from NOx testing because of the PEMS.

Response to Comment 299

Condition D.15.15(c) is renumbered Condition D.15.16(c). To clarify that this requirement applies to Boiler 4A and delete the reference to the annual capacity factors in 40 CFR 60.49b(q) which are not used at USS Gary Works for fuel oil. The permit is revised as follows:

(c) If the Permittee elects to document compliance with condition D.15.8, either by monitoring of steam generating unit operating conditions or by operating a predictive emission monitoring system (PEMS) for NO_x emissions **on No. 4A Boiler**, the Permittee shall also submit reports as required under 40 CFR 60.49b(b) **and** (h) ~~and (q)~~.

Comment 300

Section D.15.15, Item, (d)
USS requests the following corrections:

(d) The Permittee shall submit an excess emissions report, as required by 40 CFR 60.7(c), within thirty (30) days of the end of each quarter for Nos. 4A and 6 boilers. In addition to submitting this report to the addresses listed in Section C - General Reporting Requirements

Explanation: Quarterly excess emissions reporting under 40 CFR 60.7 does not apply to these boilers. Gary Works does quarterly reporting under the NOx Budget Trading program.

Response to Comment 300

Condition D.15.15(d) is renumbered Condition D.15.16(d). To clarify that this requirement applies to Nos. 4A and 6 Boilers, the names of these boiler are added to the condition. Boiler 4A is not listed as a NOx Budget Trading unit in Section E of this permit. Quarterly excess emissions reporting under 40 CFR 60.7 does apply to No. 4A Boiler. Therefore the permit is revised as follows:

(d) The Permittee shall submit an excess emissions report, as required by 40 CFR 60.7(c), within thirty (30) days of the end of each quarter **for Nos. 4A and 6 Boilers.** In addition

to submitting this report to the addresses listed in Section C - General Reporting Requirements

Comment 301

Section D.15.16
USS requests the following corrections:

~~*D.15.16Natural Gas Fired Boiler Certification*~~

> ~~*A semi-annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, for each of the TBBH Boilers Nos. 1, 2 and 3, with heat input of four hundred (400) million British Thermal unit per hour (MMBtu/hr), No. 4A, with a heat input of two hundred forty four (244) MMBtu/hr, No. 5, with a heat input of four hundred fifty (450) MMBtu/hr and No. 6 with heat input of five hundred (500) million British Thermal unit per hour (MMBtu/hr) natural gas fired boilers. This report shall be submitted in accordance with Section C – General reporting Requirements. This report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).*~~

Explanation: The purpose of this certification is not clear. Tracking and certified quarterly reporting of emissions under the NOx Budget Trading program and other fuel usage reporting is already outlined in the permit. This additional reporting is redundant with no specific purpose.

Response to Comment 301

Natural Gas certifications are required in lieu of visible emissions requirements. If the source uses multiple fuels that have potential to emit particulate, VE notations would be required. However if particulate matter emissions are considered low such as when burning natural gas, VE notations can be waived and replaced with this certification. Therefore, the permit is not revised as a result of this comment.

Comment 302

Section D.16.1
USS requests the following corrections:

> *Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), compliance with the opacity limits specified in Section C-Fugitive Dust Emissions shall be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP) submitted ~~January 28, 2000~~ latest. If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.*

Explanation: The latest revision of the Gary Works Fugitive Dust Control Plan is dated March 1, 2003 and undergoes periodic updates.

Response to Comment 302

Since, the fugitive dust plan is updated frequently the latest revised fugitive dust plan is to be used to control dust. The updated rule reference is added and the FDCP has been included as Attachment A to the permit. Therefore, the permit is revised as follows:

Pursuant to 326 IAC 6.8-10-4 (Lake County Fugitive Particulate Matter Control Requirements), compliance with the opacity limits specified in Section C-Fugitive Dust Emissions shall be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP) submitted on ~~January 28, 2000~~ **March 1, 2003 (See Attachment A).** If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

Comment 303

Section D.16.2, Item (b)
USS requests the following corrections:

(b) Unpaved Roads and Parking Lots
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.

Explanation: Correcting to exact rule language.

Section D.16.2
USS requests the following corrections:

(e) Wind Erosion from Storage Piles and Exposed Areas
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

~~*(f) Wind Erosion from Exposed Areas*~~
~~*The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.*~~

Explanation: Same as exposed areas.

Section D.16.2, Item (i)(4)
USS requests the following corrections:

(4) Compliance with the opacity limitations for fugitive particulate emissions from a building enclosing all or part of the material processing equipment, except from a vent in the building shall be determined using 40 CFR 60, Appendix A, Method 22.

Explanation: Adding omitted language.

Response to Comment 303

The exact rule language is added to the condition D.16.2(b) and D.16.2 (e) and (f) are combined. The condition items are renumbered as necessary. Also, the condition title in the Table of Contents and this condition are revised to be consistent. Therefore the permit is revised as follows:

D.16.2 Particulate Matter **Control**

(b) Unpaved Roads and Parking **Lots**
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.

(e) Wind Erosion from Storage Piles **and Exposed Areas**
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

~~(f) Wind Erosion from Exposed Areas~~
~~The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.~~

(f) ~~(g)~~ Material Transported by Truck or Rail
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the in plant transportation requirement.

(h) ~~(i)~~ Material Processing Limitations

(4) Compliance with the opacity limitations for fugitive particulate emissions from a building enclosing all or part of the material processing equipment, **except from a vent in the building** shall be determined using 40 CFR 60, Appendix A, Method 22.

Comment 304

Facility Description

The section omits several insignificant activity functions for the facility. If it is IDEM's intent to only include those activities to which a regulation applies, then the listing are inconsistent and incomplete. For example, conveyors for coal and coke are listed but there is no reference to any applicable regulation for this activity. The appropriate reference would be the general fugitive dust opacity limitations provided in Section C.5. We would suggest listing all activities that were provided in the permit application checklist to remain consistent with the facility description

Response to Comment 304

See Response to Comment 5.

Comment 305

Section E Facility Description, Item (b)
USS requests the following corrections:

(b) One (1) Boiler 701 No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a heat input of ~~450~~ 410 MMBtu per hour, exhausting through Stack OT6275.

Explanation: Correcting the boiler capacity. This is the value used in the PM10 SIP model.

Response to Comment 305

The boiler capacity is revised. The permit is revised as follows:

(b) One (1) Boiler 701 No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a heat input of ~~450~~ **410** MMBtu per hour, exhausting through Stack OT6275.

Written comments were received from US EPA, Region 5 on March 30, 2005. These comments and IDEM, OAQ responses, including changes to the permit (where language deleted is shown with ~~strikeout~~ and the added is shown in **bold**) are as follows:

Comment 1

Condition D.2.2(b): Since it appears that this facility only contains units subject to visible emission limitations is the second part of the last sentence in this condition applicable to this facility? If not, it is suggested that it be deleted.

Response to Comment 1

To clarify that this facility only contains units subject to the VE limitations under 40 CGR 63, Subpart L, the permit is revised as follows:

(b) Pursuant to 40 CFR 63.306, Work Practice Standards, the Permittee shall maintain, a written emission control work practice plan for each coke oven battery. The plan shall be designed to achieve compliance with visible emission limitations for coke oven doors, topside port lids, off take systems, and charging operations under 40 CFR 63 Subpart L. ~~or, for a coke oven battery not subject to visible emission limitations under 40 CFR 63 Subpart L, other federally enforceable visible emission limitations for these emission points.~~

Comment 2

Condition D.2.2(e)(3)(D): Sentence confusing, typographical error?

Response to Comment 2

The sentence is clarified with the exact rule language. Therefore the permit is revised as follows:

(D) **The Permittee shall** ~~S~~ **s**ubmit **a written report to the IDEM** within 14 days ~~of the notification~~ of a startup, shutdown or malfunction ~~to the certified observer or enforcement agency, or after a startup or shutdown a written report to the IDEM~~ that describes the following**:**

Comment 3

Condition D.2.11: Test method 303A should be removed since it appears there are no non-recovery coke ovens at this facility.

Response to Comment 3

Since the USS coke batteries are by product recovery coke batteries the inspection method is 303. Method 303A is an inspection method for non-recovery coke batteries and all references to this inspection method are deleted. The alternative testing methods for coke batteries with a shed are listed in 40 CFR 63.305. The coke batteries at USS do not have sheds. The references to alternative testing methods for coke batteries with sheds are deleted. Where conditions are deleted the subsequent conditions are renumbered and regrouped for clarity. See IDEM, OAQ Change 12 for revised permit language.

Comment 4

Conditions D.2.14 through D.2.17: The references to D.2.6 appear to be mixed up, please check.

Response to Comment 4

The references are changed to reflect the correct D section. See IDEM, OAQ Change 3 for permit revisions.

Comment 5

Conditions D.2.21, D.6.12, and D.8.13: Please cite origin and authority.

Response to Comment 5

The authority to require pollution control devices to be in operation when the process is operation to control emissions comes from 326 IAC 2-7-5 and 326 IAC 2-7-6. IDEM has determined that requiring control devices to be in operation when the process when the process is operation to control emissions provision is necessary with respect to compliance assurance.

Condition D.2.18: To clarify when particulate control devices are operated at the coke batteries and what is related to the control of particulate matter from the coke batteries. See IDEM Response to USS Comment 72 for the permit revision.

Comment 6

Condition D.2.28: Is the citation suppose to be 40 CFR 63.310(f)?

Response to Comment 6

The reference is changed to reflect the correct citation. See IDEM Response to USS Comment 80 for the permit revision.

Comment 7

Condition D.5.2(d): The condition restricts the CO emissions from boilers 9 and 10 to 400 ppm by volume on a dry basis corrected to 7% oxygen. CFR 63.7500(a)(1) directs you to table 1 which reads; 400 ppm by volume on a dry basis corrected to 3% oxygen. Please explain if this is a typo or if the first limit really applies, and why.

Response to Comment 7

This is a typographical error. The permit is revised as follows:

(d) Pursuant to 40 CFR 63, Subpart DDDDD, the temporary rental boiler, boiler No. 9, and boiler No. 10 comprise the affected source for the new large gaseous fuel subcategory. Pursuant to 40 CFR 63.7500(a)(1), upon startup or by November 14, 2004, the CO emissions from each of these new boilers shall not exceed 400 ppm by volume on a dry basis corrected to ~~7~~ **3** percent oxygen based on 30-day rolling average.

Comment 8

Condition D.6.5: As discussed, there is currently a variance to the State Order limit in place for these conditions. We suggest that IDEM recognize this variance and the pending rule and SIP change request in the TSD.

Response to Comment 8

US Steel - Gary Works operated under a variance of the Lake County Sulfur Dioxide Emission Limitations SIP rule 326 IAC 7-4-1.1, (from 1997 to 2005) until Indiana revised the rule and the EPA approved it. The Lake County Sulfur Dioxide (SO_2) SIP Rule became effective June 24, 2005 and was published in the Indiana Register July 1, 2005. The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective on October 26, 2005. The approved requirements are incorporated into this Part 70 permit.

Comment 9

Condition D.6.11(d): According to the Annual Emission Statement for this facility, the Sinter Windbox emitted over 2,900 tons in 2003. Why is the Permittee not required to install and operate a SO_2 CEM to demonstrate compliance with Condition D.6.5 in lieu of or in addition to the stack test every 2 1/2 years? Furthermore a stack test method should be specified in the permit to allow citizens and those reviewing the permit an opportunity to comment.

Response to Comment 9

Condition D.6.11(d) is renumbered D.6.7(d).

There are no regulatory requirements in 326 IAC 3-5 or 326 IAC 7-4 to add a SO_2 CEMs on the Sinter Windbox. The Sinter Windbox is not listed as an affected source required by 326 IAC 3-5 to install a Continuous Emissions Monitoring system for SO_2. There is no requirement to install a SO_2 CEMs on the Sinter Windbox in the revised 326 IAC 7-4 Lake County Sulfur Dioxide (SO_2) SIP Rule that became effective October 2005. The stack test method has not been specified in this condition because the appropriate method will be determined during the review of the stack test protocol submitted by the Permittee.

Comment 10

Conditions D.8.1(b) and D.8.9(a): There appears to be an incorrect reference to D.8.22 and D.2.2, please check.

Response to Comment 10

After further review, IDEM removed the 40 CFR 63 Subpart FFFFF NESHAP general requirements and added the specific rule requirements for the No. 1 BOP Shop in Condition D.8.15, because the source must comply with this rule no later than May 22, 2006. See IDEM's response to USS comments 207 and 215.

Comment 11

Conditions D.8.12(a) and (b) renumbered D.8.9(a) and (b) : There are no stack test methods listed in the permit condition, the test method should be specified in the permit to allow citizens and those reviewing the permit an opportunity to comment.

Response to Comment 11

To clarify what test method is used to test the sulfur dioxide the permit is revised as follows:

D.8.9 Sulfur Dioxide Testing Requirements

(a) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization **Station Baghouse discharge** ~~exhaust Stack SS6100~~ utilizing ~~a~~ test method **40 CFR 60, Appendix A Method 6C or other methods as** submitted **in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004** ~~approved by the Commissioner~~ to ~~show~~ **demonstrate** compliance with condition D.8.7(a). ~~in accordance with Section C – Performance Testing~~. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

(b) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, within thirty (30) months after issuance of this permit or two and one-half (2 ½) years from the date of the last valid compliance test whichever is earlier or an alternative date as determined by OAQ, Compliance Data Section , the Permittee shall perform SO_2 emission testing on the No. 1 and No. 2 Hot Metal Desulfurization **Station Baghouse discharge** ~~exhaust Stack SS6100~~ utilizing ~~a~~ test method **40 CFR 60, Appendix A Method 6C or other methods as** submitted **in accordance with the U.S. EPA Administrative Consent Order, issued January 2, 2004** ~~approved by the Commissioner~~ to ~~show~~ **demonstrate** compliance with condition D.8.7(b) ~~in accordance with Section C – Performance Testing~~ during the desulfurization reagent injection only. This test shall be repeated at least once every two and one-half (2 ½) years from the date of this valid compliance demonstration.

Comment 12

Condition D.10.5: This monitoring requirement does not include a frequency. Also, this compliance determination requirement requires the Permittee to track sulfur input but the limits in D.10.2 are based on sulfur emission outputs, are we to assume a 100% oxidation?

This condition references a SO_2 Fuel Sampling and Analysis Plan, but this seems technically incorrect since wouldn't the sulfur exist in the pre-oxidized state prior to combustion? So shouldn't this Plan be called a Sulfur Fuel Sampling and Analysis Plan?

Response to Comment 12

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1-20. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. Pursuant to 326 IAC 7-4.1-2 and in order to comply with sulfur dioxide limitations in the applicable D sections, the Permittee shall submit a sampling and analysis protocol to the Department by July 1, 2006.

USS – Gary Works has been analyzing fuel using a Fuel Sampling and Analysis Protocol submitted August 16, 2000 that details, the frequency of testing for all the various fuels combusted at USS including coke oven gas, blast furnace gas, No. 6 fuel oil and natural gas. This protocol describes the methods by which higher heating values and sulfur contents of the sulfur-bearing fuels are determined and used to calculate sulfur dioxide (SO_2) emission factors and emission rates. This protocol contains the equations used to calculate SO_2 emission rates for all the fuel combustion units at Gary Works for which SO_2 limitations are established. It is assumed that all sulfur is oxidized during combustion for the calculations.

Since the sulfur bearing fuels and materials are to be sampled and analyzed before they are combusted, the name of the plan is changed to Sulfur Fuel Sampling and Analysis in all conditions throughout the permit including Conditions D.10.7, C.10 (renumbered C.9), D.2.20 (renumbered D.2.17), D.5.11, D.7.11 (renumbered D.7.8), D.14.7 and D.15.11. Therefore, the permit is revised as follows:

D.10.7 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [326 IAC 7-4.1-2]

C.9 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis (Entire Source) [326 IAC 7-4.1-2]

D.2.17 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [326 IAC 7-4.1-2]

D.5.11 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [326 IAC 7-4-1.1(d)]

D.7.8 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [[326 IAC 7-4.1-2]

D.14.7 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [326 IAC 7-4.1-2]

D.15.11 Sulfur ~~Dioxide (SO_2)~~ Fuel Sampling and Analysis [[326 IAC 7-4.1-2]

Comment 13

Section D.11: The 80-inch Pickle Line is not listed in the Annual Emission Statement, is this unit still in operation?

Response to Comment 13

Yes, the 80-inch pickle line is still in operation and listed in Section D.11 of this permit. If it is just pickling emissions emitted by the 80-inch pickle line, they may not be required to report. Pursuant to 326 IAC 2-6 Emission Reporting Rule sources are required to report emissions from emission units emitting major

criteria pollutants. The 80-inch pickle line cold reducing and temper emissions have been reported since 1993.

Comment 14

Conditions D.13.1 and D.13.2: These conditions include a PM limitation and a fuel type requirement, but there isn't any corresponding monitoring or recordkeeping requirement. How will compliance be demonstrated for these conditions? Recordkeeping, for example, would be a straightforward way of showing use of natural gas only.

Response to Comment 14

A record keeping requirement is added. The permit is revised as follows:

D.13.3 Record Keeping Requirements

(a) In order to demonstrate compliance with conditions D.13.1 and D.13.2, the Permittee shall maintain records of the natural gas usage of the furnaces.

(b) All records shall be maintained in accordance with Section C - General Record Keeping requirements of this permit.

Comment 15

Conditions D.3.1, D.12.6(a) and D.14.1(a): Which units do these conditions apply to?

Response to Comment 15

Condition D.3.1 applies to process equipment units. The permit is revised as follows:

D.3.1 General Provisions Relating to Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 14] [40 CFR Part 61 Subpart A]

The provisions of 40 CFR Part 61, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 14, apply to the ~~facilities described in this section~~ **process vessels, tar storage tank, light oil sump, naphthalene processing, final coolers and cooler towers and equipment in benzene service,** except when otherwise specified in 40 CFR Part 61, Subpart L, 40 CFR Part 61, Subpart V, and 40 CFR Part 61, Subpart FF.

Condition D.12.6(a) applies to the EGL Boiler. The permit is revised as follows:

D.12.6 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source: **EGL Boiler**, as designated by 40 CFR 63.7506(b). The Permittee must comply with the General Provision 40 CFR 63.9(b) Initial Notification Requirements.

Condition D.14.1(a) applies to the No.4 Boiler House Boilers. The permit is revised as follows:

D.14.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source: **No. 4 Boiler House Boilers Nos. 1, 2 and 3**, as designated by 40 CFR 63.7506(b). The Permittee must comply with the General

Provision 40 CFR 63.9(b) Initial Notification Requirements.

Comment 16

Condition D.15.8: The condition lists the applicable NSPS limit that applies to the boilers. Conditions D.15.8(a)(2) and (b)(2) address the burning of the combination of natural gas and coke oven gas and states that the NSPS limit is therefore not applicable. It is Region 5's understanding that the combustion of coke oven gas in conjunction with natural gas does not preclude a source from complying with Subpart Db. Region 5 is currently researching what applicable NSPS emission limit should be used when a combination of the fuels is being burned.

Response to Comment 16

Condition D.15.8(a)(2) and Condition D.15.8(b)(2)

A source determination written by Judith Katz, Acting Director of Air Protection Division, EPA Region 3 dated October 10, 1997 states the definition of "coal" under Section 60.41b encompasses "coal derived synthetic fuels, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures". The words "including but not limited to" indicate that all coal-derived synthetic fuels are "coal" for purposes of Subpart Db regardless of whether they are specifically listed. In promulgating Subpart Db, EPA explained that the rule was intended to have broad application. "Coal and all coal-derived fuels, including both liquid and gaseous fuels, are being covered because there are demonstrated control technologies available to reduce emissions from the combustion of fuels in both forms." 51 FR 42768, 42773 (Nov. 25, 1986). Coke Oven gas is clearly "coal derived." Coke oven gas (COG) is produced in coke ovens during the coking process where the volatile matter of coal is driven off in the form of coke oven gas by extremely high temperatures leaving only coke, which is basically carbon. Also, COG is "synthetic". "Synthetic" is synonymous with "manmade", not occurring naturally. Therefore, COG used as a fuel is a "coal-derived synthetic fuel" and regulated as coal under Subpart Db.

A second source determination written by Beverly Bannister, Director of Air, Pesticides and Toxics, EPA Region 4 dated September 12, 2003 states that coke oven gas is considered equivalent to coal under NSPS Subpart Db. As defined in Subpart Db, coal includes coal derived synthetic fuels. Since coke oven gas is a synthetic fuel derived from coal it is considered equivalent to coal. Therefore, the coal derived synthetic fuels NOx limit has been included in Condition D.15.8(a)(2) when the Boiler 4A is combusting coke oven gas.

Blast furnace gas has a low Btu per hour rating and needs to be combusted with natural gas, therefore D.15.8(b)(2) has been deleted, since the natural gas limit would apply.

The permit is revised as shown below.

D.15.8 Nitrogen Oxides (NO_x) Limitations [326 IAC 12][40 CFR Part 60, Subpart D and Subpart Db]

(a) Pursuant to CP-089-9568-00121, issued September 21, 1998, 40 CFR 60 Subpart Db, and 326 IAC 12 (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units), NO_x emissions from the TBBH Boiler No. 4A Stack OT6274 shall comply with the following:

(1) The NOx emissions shall not exceed 0.20 lb/MMBtu when the boiler is burning natural gas only. This is equivalent to 48.8 pounds per hour at a maximum heat input rate of 244 MMBtu per hour.

(2) ~~This limit shall not apply in situations where the boiler is burning any combination of natural gas and coke oven gas or coke oven gas alone.~~

The NOx emissions shall not exceed 0.50 lb/MMBtu when the boiler is burning coke oven gas alone. This is equivalent to 122 pounds per hour at a maximum heat input rate of 244 MMBtu per hour.

(b) Pursuant to Minor Source Modification 089-10160-00121, issued January 13, 2000, 326 IAC 12 and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction or modification is Commenced After August 17, 1971), NOx emissions from the Turboblower Boiler House (TBBH) Boiler No. 6 ~~shall comply with the following~~:

~~(1) NO_x emissions from TBBH Boiler No. 6~~ Stack OT6276 shall not exceed 0.20 pound per MMBtu of heat input, when the boiler is burning natural gas only.

~~(2) This limit shall not apply in situations when the boiler is burning any combination of natural gas and blast furnace gas or blast furnace gas alone.~~

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified to reflect these changes. Miscellaneous grammar and spelling corrections have been made throughout the permit also.

Change 1:

Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP Call published by USEPA in 1997 (62 FR 8314), Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule was effective March 16, 2005; therefore, the following condition will be revised to incorporate the new rule language into this permit.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] **[326 IAC 1-1-6]**

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

Change 2:

To clarify the method of determining the pushing opacity from the coke batteries, the permit is revised as follows:

(2) The opacity of emissions during the pushing operation shall not exceed twenty percent (20%). The pushing shall be considered to begin with the first movement of coke from the oven into the coke car and to end when the quench

car enters the quench tower. **The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.**

Change 3:

The references are revised to clarify which visible emission inspections or emission testing corresponds with opacity limits. The permit is revised as follows:

D.2.11 Visible Emission Inspections for Charging [326 IAC 11-3-4(a)]

(a) Pursuant to 326 IAC 11-3-4(a) and in order to demonstrate compliance with Condition D.2.6 ~~5(c) and (d)~~ **(a)**, **and D.2.4(b)** …..

D.2.12 Charge Port Lids and Off take Piping - Emissions Testing [326 IAC 11-3-4(b)]

Pursuant to 326 IAC 11-3-4(b) and in order to determine compliance with condition D.2.6 ~~5 (f), (g) and (h)~~ **(b) and (c) and D.2.4(d) and (e)**……

D.2.13 Visible Emissions for Oven Doors [326 IAC 11-3-4(c)]

(a) Pursuant to 326 IAC 11-3-4(c) and in order to demonstrate compliance with Condition D.2.6 ~~5 (a) and (b)~~ **(e) and D.2.4(a)** …..

D.2.14 Visible Emissions Inspections for Gas Collector Main [326 IAC 11-3-4(e)]

Pursuant to 326 IAC 11-3-4(e) and in order to determine compliance with condition D.2.6~~5 (i) and (j)~~ **(d) and D.2.4(f)** ….

D.2.15 Visible Emissions Inspections Pushing [326 IAC 6.8-9-3(a)(3)]

(a) Pursuant to 326 IAC 6.8-9-3(a)(3)(A) and in order to determine compliance with Condition D.2.5~~4(e)(1))~~ **(c)(1)** ……..

(b) Pursuant to 326 IAC 6.8-9-3(a)(3)(B) and in order to determine compliance with Condition D.2.5~~4(e)(2),~~ **(c)(2)** …….

Change 4:

A duplicate condition is deleted. Therefore the permit is revised as follows:

D.5.16 Reporting Requirements

~~(e) The Permittee shall comply with the reporting requirements in 40 CFR 63.7550 for the temporary rental boiler, boiler No. 9, and boiler No. 10.~~

Change 5:

The references are revised to reflect the correct testing procedure. Therefore the permit is revised as follows:

D.9.~~13~~ **10** Testing Requirements

(c) Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004,

demonstration f compliance by performance testing per D.9.~~14~~ **10**(b) above shall not fulfill the compliance demonstration requirement for D.9. ~~14~~ **10**(a).

Change 6:

The EPA Air Toxics Website link included two typos which are revised throughout the permit. The link is revised as follows:

http://www.epa.gov/ttn~~/~~atw/~~mcm/mcmpg~~.html

http://www.epa.gov/ttn/atw/eparules.html

Change 7:

The Table of Contents for Section D.5 has a MACT rule reference that is revised as follows:

D.5.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63, Subpart ~~CCCCC~~ **DDDDD]**

Change 8:

Upon further review by IDEM, the Permittee is required to perform daily visible emission notations to ensure compliance with particulate emissions when the No. 4 Boiler House Boilers Nos. 1 and 2 are combusting fuel oil or any combination of gas and fuel. Therefore this condition is added and the permit is revised as follows:

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.14.8 Visible Emission Notations

When Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil, and natural gas or blast furnace gas

(a) Visible emission notations of the Boilers No. 1 stack O46268 and/or No. 2 stack O46269 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to

Excursions or Exceedances shall be considered a deviation of this permit.

D.14.10 Record Keeping Requirements

(c) To document compliance with Conditions D.14.8, the Permittee shall maintain records of the once per day visible emission notations when Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil, and natural gas or blast furnace gas.

Change 9:

Upon further review by IDEM, the Permittee is required to perform daily visible emission notations to ensure compliance with particulate emissions when the TBBH Boiler House Boilers Nos. 1, 2, 3 and 5 are combusting fuel oil or any combination of gas and fuel. Therefore this condition is added and the permit is revised as follows:

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.15.13 Visible Emission Notations

When any one or combination of Boilers No. 1, No. 2, No. 3 and No. 5 combust fuel oil or any combination of fuel oil, and natural gas, blast furnace gas or coke oven gas

(a) Visible emission notations of the Boilers No. 1, No. 2, No. 3 and/or No. 5 stacks OT6271, OT6372, OT6273 and OT6275 shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation of this permit.

D.15.15 Record Keeping Requirements

(e) To document compliance with Conditions D.15.13, the Permittee shall maintain records of once per day visible emission notations when Boilers No. 1, No. 2, No. 3 and/or No. 5 combust fuel oil or any combination of fuel oil, and natural gas, blast furnace gas or coke oven gas.

Table of Contents is revised as follows:

~~D.15.13 Continuous Nitrogen Oxides (NOx) Emissions Monitoring Systems [40 CFR Part 60, Appendix F]~~

D.15.13 Visible Emission Notations

Change 10:

The telephone number for Dave Sampias and address for the Northwest Regional Office were incorrectly stated in the Appendix of the NOx Budget TSD. The office moved, therefore the Appendix A to the Technical Support Document for the NOx Budget TSD is revised as follows:

Dave Sampias may be reached at (219)757-0365 or toll free 1-888-209-8892

Northwest Regional Office
8315 Virginia St., Ste. 1
Merrillville, IN 46410

Change 11:

Pollutant	Status
PM2.5	Non-attainment

U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability for the source section.

The permit is revised as follows:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates an integrated steel mill.

Responsible Officials:	~~Coke - Plant Manager, Gary Coke Operations~~ ~~Steel -~~ General Manager, Gary ~~Sheet~~ **Works**
Source Address:	1 North Broadway, Gary, Indiana 46402
Mailing Address:	1 North Broadway, Gary, Indiana 46402
General Source Phone Number:	219-888-3387
SIC Code:	3312
County Location:	Lake
Source Location Status:	Nonattainment for SO_2 Nonattainment for 1-hour ozone Nonattainment for 8-hour ozone **Nonattainment for PM2.5** Attainment or unclassifiable for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD, nonattainment for NSR and Emission Offset Rules; Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

Change 12:

Since the coke batteries are by product recovery coke batteries the inspection method is 303. Method 303A is an inspection method for non-recovery coke batteries and all references to this inspection method are deleted. The alternative testing methods for coke batteries with a shed are listed in 40 CFR 63.305. The coke batteries at USS do not have sheds. The references to alternative testing methods for coke batteries with sheds are deleted. Where conditions are deleted the subsequent conditions are renumbered and regrouped for clarity. Therefore, the permit is revised as follows:

D.2.10 National Emission Standards for Hazardous Air Pollutants from Coke Oven Batteries - Visible Emissions Inspection Requirements [40 CFR 63.309][326 IAC 20]

(a) Pursuant to 40 CFR Part 63.309, except as otherwise provided, the Permittee shall conduct a performance test each day, 7 days per week, for each coke oven battery. The test results shall be used in accordance with procedures specified in 40 CFR Part 63 Subpart L to determine compliance with each of the applicable visible emission limitations in Condition D.2.2. If a facility pushes and charges only at night, then the facility must at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" will be determined by the enforcement agency.

(1) Each performance test is to be conducted according to the procedures and requirements 40 CFR 63.309 and 40 CFR Part 63 Appendix A, Method 303 ~~or 303A~~ or 40 CFR Part 60, Appendix A, Methods 9 and 22 (where applicable).

((2) Each performance test is to be conducted by a certified observer.

(3) The certified observer shall complete any reasonable safety training program offered by the Permittee prior to conducting any performance test at a coke oven battery.

(4) Except as otherwise provided in paragraph (a)(5) of 40 CFR 63.309, the Permittee shall pay an inspection fee to the enforcement agency each calendar quarter to defray the costs of the daily performance tests required under paragraph (a) of 40 CFR 63.309.

(A) The inspection fee shall be determined according to the following formula:

F = H x S where

F = Fees to be paid by owner or operator.

H = Total person hours for inspections: 4 hours for 1 coke oven battery, 6.25 hours for 2 coke oven batteries, 8.25 hours for 3 coke oven batteries. For more than 3 coke oven batteries, use these hours to calculate the appropriate estimate of person hours.

S = Current average hourly rate for private visible emission inspectors in the relevant market.

(B) The Permittee shall not be required to pay an inspection fee (or any part thereof) under paragraph (a)(4) of 40 CFR 63.309, for any monitoring or inspection services required by paragraph (a) of 40 CFR 63.309 that the Permittee can demonstrate are covered by other fees collected by the enforcement agency.

(C) Upon request, the enforcement agency shall provide the Permittee information concerning the inspection services covered by any other fees collected by the enforcement agency, and any information relied upon under paragraph (a)(4)(B) of 40 CFR 63.309.

(5) The EPA shall be the enforcement agency during any period of time that a delegation of enforcement authority is not in effect or a withdrawal of enforcement authority under 40 CFR 63.313 is in effect, and the Administrator is responsible for performing the inspections required by this section, pursuant to 40 CFR 63.313(b).

(b)~~(6)~~ Within thirty (30) days of receiving notification from the Administrator that the EPA is the enforcement agency for a coke oven battery, the Permittee shall enter into a contract providing for the inspections and performance tests required under this section to be performed by a Method 303 certified observer. The inspections and performance tests will be conducted at the expense of the Permittee, during the period that the EPA is the implementing agency.

(c)~~(7)~~ The enforcement agency shall commence daily performance tests on the applicable date specified in 40 CFR 63.300 (a) or (c).

(d)~~(8)~~ The certified observer shall conduct each performance test according to the requirements in this paragraph:

(1)~~(A)~~ The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door ~~(except for doors covered by an alternative standard under 40 CFR 63.305)~~, topside port lid, and off take system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 ~~or Method 303A~~ in appendix A 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in sections 3.8 and 3.9 of Method 303 in appendix A 40 CFR Part 63.

(2)~~(B)~~ If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.

(3)~~(C)~~ After each performance test for a by-product coke oven battery, the certified observer shall check and record the collecting main pressure according to the procedures in section 6.3 of Method 303 in appendix A to 40 CFR Part 63.

(A)~~(i)~~ The Permittee shall demonstrate pursuant to Method 303 in appendix A to 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer;

(B)~~(ii)~~ The Permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;

~~(D) The certified observer shall monitor visible emissions from coke oven~~

~~doors subject to an alternative standard under 40 CFR 63.305 on the schedule specified in 40 CFR 63.305(f).~~

~~(E) If applicable, the certified observer shall monitor the opacity of any emissions escaping the control device for a shed covering doors subject to an alternative standard under 40 CFR 63.305 on the schedule specified in 40 CFR 63.305(f).~~

(4)(~~F~~) In no case shall the Permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.

(e) ~~(9)~~ Using the observations obtained from each performance test, the enforcement agency shall compute and record, in accordance with the procedures and requirements of Method 303 ~~or 303A~~ in appendix A to 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:

(1)~~(A)~~ The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and off take systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 ~~(or section 3.4.3.2 of Method 303A)~~ in appendix A to 40 CFR Part 63;

(2) ~~(B)~~ For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in appendix A to 40 CFR Part 63;

~~(C) For a battery subject to an alternative emission limitation for coke oven doors on by-product coke oven batteries pursuant to 40 CFR 63.305, the 30-run rolling average of the percent leaking coke oven doors for any side of the battery not subject to such alternative emission limitation;~~

(3)~~(D)~~ For a by-product coke oven battery subject to the small battery emission limitation for coke oven doors pursuant to 40 CFR 63.304(b)(7), the 30-run rolling average of the number of leaking coke oven doors;

(f) ~~(10)~~ The certified observer shall make available to the implementing agency as well as to The Permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to The Permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying an owner or operator of the results obtained by a certified observer, the person does not have to be certified.

(g) ~~(11)~~ Compliance shall not be determined more often than the schedule provided for performance tests under this section. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall be used in any computations performed to determine compliance under 40 CFR 63.309(d) or determinations under 40 CFR 63.306.

(h)(~~12)~~ For a flare constructed to meet the requirements of 40 CFR 63.307(b):

(1)~~(A)~~ Compliance with the provisions in 40 CFR 63.307(c) (visible emissions from flares) shall be determined using Method 22 in appendix A to 40 CFR Part 60, with an observation period of 2 hours; and

(2)~~(A)~~ Compliance with the provisions in 40 CFR 63.307(b)(4) (flare pilot light) shall be determined using a thermocouple or any other equivalent device.

(i)(~~13~~) No observations obtained during any program for training or for certifying observers under this subpart shall be used to determine compliance with the requirements of this subpart or any other federally enforceable standard.

Change 13:

The construction date in the Section D.15 description box is incorrect. The TBBH Boiler No. 6 was constructed after August 17, 1971 and before June 19, 1984. Therefore, the permit is revised as follows:

(d) One (1) boiler, No. 6, identified as OTB60467, constructed ~~prior to~~ **after** August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

Change 14:

IDEM received a request to withdraw the Draft Part 70 Permit 089-12280-05210 for Heritage Slag Products, LLC plant id 089-05210 on August 19, 2005. Heritage Slag Products LLC relocated to ISPAT-Inland in April 2004 under Significant Source Modification 089-17185-00481. Note: Heritage Slag Products LLC was assigned a stationary source id 089-00481 in conjunction with the relocation to ISPAT-Inland. Also, one new contractor has constructed at US Steel. US Aggregates, Inc. plant ID 089-0 with a Draft Part 70 Permit 089-21828-00500. For consistency, the phrase “a supporting operation” is changed to “the on-site contractor”. Therefore, the permit is revised as follows:

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This integrated steel mill consists of a main mill and ten (10) on-site contractors:

(a) U. S. Steel - Gary Works, plant Id 089-00121, the primary operation, located at One North Broadway, Gary, Indiana 46402;

(b) Brandenburg Industrial Service Company, plant Id 089-00176, ~~a supporting operation~~ **the on-site contractor**, located at One North Broadway, Gary, Indiana 46402;

(c) Central Teaming Company, plant Id 089-00172, ~~a supporting operation~~ **the on-site contractor**, located at One North Broadway, Gary, Indiana 46402;

(d) Chief Excavation, Inc., plant Id 089-00486, the on site contractor, located at One North Broadway, Gary, Indiana 46402

(e) Gary Coal Processing, LP, plant Id 089-00169, ~~a supporting operation~~ **the on-site contractor**, located at One North Broadway, Gary, Indiana 46402; and

(f) Heckett Multiserv, plant Id 089-00170, ~~a supporting operation~~ **the on-site contractor**,, located at One North Broadway, Gary, Indiana 46402;

~~(f) Heritage Slag Products, LLC., plant Id 089-05210, a supporting operation, located at One North Broadway, Gary, Indiana 46402;~~

~~(g)~~ **(g)** International Mill Service, Inc., plant Id 089-00132, ~~a supporting operation~~ **the on-site contractor**, located at One North Broadway, Gary, Indiana 46402;

~~(h)~~ **(h)** Koppers, Inc., plant Id 089- 00180, ~~a supporting operation~~ **the on-site contractor**,, located at One North Broadway, Gary, Indiana 46402;

~~(i)~~ **(i)** Levy- Indiana Slag Company, plant Id 089-00133, a supporting operation, located at One North Buchanan Street, Gary, Indiana 46401;

~~(j)~~ **(j)** Mid-Continent Coal and Coke Company, plant Id 089-00173, ~~a supporting operation~~ **the on-site contractor**,, located at One North Broadway, Gary, Indiana 46402;

~~(k)~~ **(k)** Tube City, Inc., plant Id 089-00174, ~~a supporting operation~~ **the on-site contractor**,, located at One North Broadway, Gary, Indiana 46401.

(l) U.S. Aggregates, Inc., Id 089- 05256, the on-site contractor,, located at One North Broadway, Gary, Indiana 46402.

Separate Part 70 permits will be issued to US Steel - Gary Works and each on site contractor, solely for administrative purposes.

Company Name	Part 70 Permit Number
U.S. Steel - Gary Works	089-7663-00121
Brandenburg Industrial Service Company	089-8013-00176
Central Teaming Company, Inc.	089-7684-00172
Chief Excavation, Inc.	**089-18339-00486**
Gary Coal Processing, LP	089-7171-000169
Heckett Multiserv,	089-7649-00170
~~Heritage Slag Products, LLC,~~	~~089-12280-05210~~
International Mill Service, Inc.	089-5630-00132
Koppers, Inc.	089-13872-00180
Levy-Indiana Slag Company	089-7719-00133
Mid-Continent Coal and Coke Company	089-8064-00**1**73
Tube City, Inc.	089-7648-00174
U.S. Aggregates, Inc.	**089-21828-05256**

Change 15:

326 IAC 6.8 was added to reflect the current rule revisions and divide Lake County source requirements into separate sections for each source. Rule 326 IAC 6-1 has been repealed. The revised rule was published in the Indiana Register September 1, 2005 and became effective September 9, 2005. Therefore the permit conditions and rule references revised by this rule addition are as follows:

Affected Condition	**New 6.8 Particulate Rule Reference**	**Former 6-1 Particulate Rule Reference**
C.5 (a) and (b)	326 IAC 6.8-10; 326 IAC 6.8-10-2, 326 IAC6.8-10-3, 326 IAC 6.8-11,	326 IAC 6-1-11.1; 326 IAC 6-1-11.2 ; 326 IAC 6-1-11.2 parts (h), (i), (k), (l),

Affected Condition	New 6.8 Particulate Rule Reference	Former 6-1 Particulate Rule Reference
	326 IAC 6.8-11-4 and 326 IAC 6.8-11-6	(m), (o), (p) and (q).
C.13	326 IAC 6.8-8-1, 326 IAC 6.8-8-6, 326 IAC 6.8-8-7 and 326 IAC 6.8-8-8	326 IAC 6-1-10.1(l) and 326 IAC 6-1-10.1(u)
D.1.1	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.1.2	326 IAC 6.8-10-3	326 IAC 6-1-2(a)
D.1.3	326 IAC 6.8-9-3(a)(9)(A)	326 IAC 6-1-10.2(c)(9)(A)
D.1.4	326 IAC 6.8-9-3(a)(9)(B)	326 IAC 6-1-10.2(c)(9)(B)
D.1.10	326 IAC 6.8-5-1	326 IAC 6-1-10.1(g)(3)
D.2.3	326 IAC 6.8-2-38 326 IAC 6.8-9-3(a)(8)	326 IAC 6-1-10.1(d)(36) 326 IAC 6-1-10.2(c)(8)]
D.2.4	326 IAC 6.8-9	326 IAC 6-1-10.2
D.2.15	326 IAC 6.8-9-3(a)(3)	326 IAC 6-1-10.2(c)(3)
D.2.16	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.3.5	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.4.1	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.5.3	326 IAC 6.8-2-38 and 326 IAC 6.8-1-2(b)	326 IAC 6-1-10.1(d)(36) and 326 IAC 6-1-2(b)
D.6.3	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.6.7	326 IAC 6.8-4-1(1) and (5)	326 IAC 6-1-10.1(f)
D.7.2	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.7.3	326 IAC6.8-10.3	326 IAC 6-1-2(a)
D.7.7	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.8.2	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.8.3	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.8.4	326 IAC 6.8-3-4	326 IAC 6-1-10.1(e)
D.8.8	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.9.2	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.9.3	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.9.4	326 IAC 6.8-3-4	326 IAC 6-1-10.1(e)
D.9.9	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.10.3	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.10.6	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.11.5	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.12.2	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.12.3	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.13.1	326 IAC 6.8-1-2(a)	326 IAC 6-1-2(a)
D.14.3	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.14.6	326 IAC 6.8-4-1(1)	326 IAC 6-1-10.1(f)
D.15.5	326 IAC 6.8-2-38	326 IAC 6-1-10.1(d)(36)
D.15.10	326 IAC 6.8-4-1	326 IAC 6-1-10.1(f)
D.16.1	326 IAC 6.8-10-4(1)	326 IAC 6-1-11.1
D.16.2	326 IAC 6.8-10-3	326 IAC 6-1-11.1
D.16.3	326 IAC 6.8-10-4(4)	326 IAC 6-1-11.1
D.16.4	326 IAC 6.8-10-4(4)(G)	326 IAC 6-1-11.1
D.17.1	326 IAC 6.8-10-3	326 IAC 6-1-2(a)

Change 16:

326 IAC 6.8 (Particulate Matter Limitations for Lake County) was added to reflect the current rule revisions and divide Lake County source requirements into separate sections for each source. The Particulate Matter Rule 326 IAC 6-1 has been repealed. The revised particulate rule for Lake County 326 IAC 6.8 was published in the Indiana Register September 1, 2005 and became effective September 9, 2005. Therefore the permit conditions and rule references revised by this rule addition are as follows:

Affected Descriptions	**New 6.8 Particulate Rule Reference**	**Former 6-1 Particulate Rule Reference**
A.4 Insignificant Activities and Section D.17 description box (a)(4),(5), (6)(A) and (B), (7), (8) and (9)	326 IAC 6-4-2 326 IAC 6.8-10-3	326 IAC 6-1-2(a) 326 IAC 6-1-11.1(d)

(i) Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and 326 IAC 6.8-1-2(b) (Nonattainment Area Particulate Limitations), particulate matter (PM) from each of the boilers No. 9, No. 10 and the temporary rental boiler shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air.

Change 17:

A rule citation is deleted because it pertains specifically to the precarbonization towers in condition D.1.3. The Table of Contents references for D.1.1 are also revised. Therefore, the permit is revised as follows:

D.1.1 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] ~~[326 IAC 6-1-10.2(9)]~~[326 IAC 11-3-2(a)]

Pursuant to 326 IAC 6.8-2.38, ~~326 IAC 6-1-10.2(9)~~ and 326 IAC 11-3-2(a), the PM_{10} from the No. 2 Coke Battery Precarbonization Lines A, B, and C, ESP stacks CH6034, CH6035 and CH6037 and No. 3 Coke Battery Precarbonization Lines A, B, and C ESP stacks CH6028, CH6029 and CH6031 shall comply with the following:

Change 18:

To add the source modification reference in the condition and correct the title of the rule, the permit is revised as follows:

D.5.3 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38] [326 IAC 6.8-1-2(b)]

(i) Pursuant to **Significant Source Modification 089-19678-00121, issued October 29, 2004 and** 326 IAC 6.8-1-2(b) ~~(Nonattainment Area Particulate Limitations)~~,)(**Particulate Matter Limitations for Lake County)** particulate matter (PM) from each of the boilers No. 9, No. 10 and the temporary rental boiler shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air.

Change 19:

Significant source modification 089-19709-00121 was issued May 2, 2005, to reconfigure the fuel supply piping at the 84" Hot Strip Mill four (4) slab reheat furnaces to enable the firing of coke oven gas with natural gas. Therefore, the permit is revised as follows to incorporate the origin of the limits as shown below:

D.10.~~1~~**3** Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-38]

(a) Pursuant to **Significant Source Modification 089-19709-00121, issued May 2, 2005 and** 326 IAC 6.8-2-38, PM_{10} emissions from the **84" Hot Strip Mill** Reheat Furnaces Nos. 1, 2, 3 and 4 ~~and Waste Heat Boilers Nos.1 and 2 shall comply with the following~~:

~~(a)~~ ~~The PM_{10} emissions from the 84" Hot Strip Mill Reheat Furnaces Nos. 1, 2, 3 and 4,~~ **Stacks** RM6500, RM6501, RM6502 and RM 6503 shall not exceed 0.017 pound per MMBtu of heat input and a total of 40.80 pounds per hour.

(b) **Pursuant to 326 IAC 6.8-2-38, PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boilers Nos.1 and 2 shall comply with the following**:

~~(b)~~ **(1)** The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 1 Stack HB6504 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

~~(c)~~ **(2)** The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 2 Stack HB6505 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

~~(d)~~ **(c)** Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes Astack serving@, and to each stack of multiple stacks serving multiple facilities when the facility description notes Aeach stack serving.

Change 20:

The Table of Contents rule citation for General Record keeping is revised to include the revised NSR rule citations. Therefore, the permit is revised as follows:

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] **[326 IAC 2-2] [326 IAC 2-3]**

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] **[326 IAC 2-2] [326 IAC 2-3]**

Change 21:

(2) Cleaners and solvents characterized as follows:
(A) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38**°** ~~degrees~~ C (100°F) or;

Change 22:

The EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO_2) SIP rule 326 IAC 7-4.1. The revised SO_2 SIP rule was published in the Federal Register on September 26, 2005 and became effective October 26, 2005. The approved requirements are incorporated into this Part 70 permit. Therefore the permit is revised as follows:

D.8.5 Sulfur Dioxide (SO_2) Limitations [~~325 IAC 7-4-1.1(a)~~] **[326 IAC 7-4.1-20(c)(3)]**

~~Pursuant to 325 IAC 7-4-1.1(a), fossil fueled sources No. 1 BOP Shop ladle preheaters/dryers~~

~~SSLP0229 shall burn natural gas only.~~

Pursuant to 326 IAC 7-4.1-20(c)(3), an emission unit shall burn natural gas only:

(a) If it is not listed in this rule; or

(b) under any operating condition not specifically listed in this rule.

Change 23:

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. The IDEM compliance telephone and facsimile numbers are revised in this condition and throughout the permit. Therefore, IDEM has deleted paragraph (b) of Section B – Preventive Maintenance, and has amended the Section B – Emergency Provisions condition as follows:

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by the A responsible official as defined by 326 IAC 2-7-1(34).

~~(b) The Permittee shall implement the PMPs, including any required record keeping as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

~~(c)~~ **(b)** A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance

causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP**s** do~~es~~ not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

~~(d)~~ **(c)** To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-~~5674~~ **0178** (ask for Compliance Section)
Facsimile Number: 317-233-~~5967~~ **6865**

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-**2251**

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) **The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However,** IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

Change 24:

IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Section D conditions that refer to this condition have been revised to reflect the new condition title, and the following changes have been made to the Section C condition:

C.18 ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~
Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~

~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~

~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~

~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~

~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~

~~(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~

~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~

~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~

~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~

~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~

~~(3) An automatic measurement was taken when the process was not operating.~~

~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~

~~(d) When implementing reasonable steps in response to a compliance monitoring condition,~~

~~if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~

~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

Change 25:

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, the permit is revised as follows:

D.4.4 Record Keeping Requirements

(a) ~~To document compliance with Condition D.4.2, the Permittee shall maintain of records of any additional inspections required by the Preventive Maintenance Plan.~~

~~(b)~~ To document compliance with Condition D.4.2 the Permittee shall maintain records of the downtime hours of the Coke Oven Gas Desulfurization Plant.

~~(c)~~ **(b)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.10.8 Record Keeping Requirements

(a) To document compliance with Condition D.10.4, the Permittee shall maintain records in accordance with Section C- Sulfur Dioxide (SO_2) Record Keeping Requirements (Entire Source).

~~(b) To document compliance with Condition D.10.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~(c)~~ **(b)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

Change 26:

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections have been removed. Therefore, conditions D.2.24 are revised as follows:

~~D.2.24 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags in the No. 5 and No. 7 Coke Battery pushing operation baghouse CP3041. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

Change 27:

After further review, IDEM has clarified the Section B Operational Flexibility condition as follows:

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the ~~emissions allowable under~~ **limitations provided in** this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-**2251**

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, **on a rolling five (5) year basis**, which document~~, on a rolling five (5) year basis,~~ all such changes and emission~~s~~ ~~trading~~ **trades** that are subject to 326 IAC 2-7-20(b), (c), or (e)**.** ~~and makes~~ **The Permittee shall make** such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the

certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade **emissions** increases and decreases ~~in emissions in~~ **at** the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) This condition does not apply to emission trades of SO_2 or NO_X under 326 IAC 21 or 326 IAC 10-4.

Change 28:

After further review IDEM has removed the requirement to submit a significant permit modification to include the specific 40 CFR 63 Subpart FFFFF NESHAP requirements from this condition and added the specific requirements associated with the with the blast furnaces in the renumbered Condition D.7.16, because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.7.21 Requirements to Submit a Significant Permit Application [326 IAC 2-7-12] [326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM-OAQ to include information from the notification of compliance status in the Part 70 permit.~~

~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient to IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart FFFFF, a description of the affected source and activities subject to the standard and a description of how the Permittee will meet the applicable requirements of the standard.~~

~~(b) The significant permit modification application shall be submitted no later than August 22, 2005.~~

~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204~~

D.7.16 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Blast Furnaces [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for

Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing blast furnace at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the blast furnace casthouse.

(d) A blast furnace at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A blast furnace at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you no later than May 22, 2006.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraph (b)(1) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a blast furnace casthouse at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end or blast furnace casthouse, or to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit

parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test

methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(e) For a control device applied to emissions from a blast furnace casthouse, sample for an integral number of furnace tapping operations sufficient to obtain at least 1 hour of sampling for each test run.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a blast furnace casthouse:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages. For a blast furnace casthouse, make observations during tapping of the furnace. Tapping begins when the furnace is opened, usually by creating a hole near the bottom of the furnace, and ends when the hole is plugged.

§63.7824 What test methods and other procedures must I use to establish and

demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(d) You may change the operating limits for a capture system if you meet the requirements in paragraphs (d)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(c) For each emission limitation that applies to you, you must submit a notification of

compliance status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a blast furnace casthouse, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, if applicable, detailed descriptions of the procedures you use for corrective action for baghouses;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraph (a)(1) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from

the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(b) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(3) Check the compressed air supply for pulse-jet baghouses each day.

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through (6) of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last

control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in

relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance," EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) and (2) of this section:

(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.

(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through (3) of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer

subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance

demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and

you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period

including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity

observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement

and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

***Bag leak detection system* means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.**

***Basic oxygen process furnace* means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.**

***Basic oxygen process furnace shop* means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.**

***Basic oxygen process furnace shop ancillary operations* means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.**

***Blast furnace* means a furnace used for the production of molten iron from iron ore and other iron bearing materials.**

Bottom-blown furnace **means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.**

Casthouse **means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.**

Certified observer **means a visible emission observer certified to perform EPA Method 9 opacity observations.**

Desulfurization **means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.**

Deviation **means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:**

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end **means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.**

Emission limitation **means any emission limit, opacity limit, or operating limit.**

Hot metal transfer station **means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.**

Integrated iron and steel manufacturing facility **means an establishment engaged in the production of steel from iron ore.**

Ladle metallurgy **means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.**

Primary emissions **means particulate matter emissions from the basic oxygen**

process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system **means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).**

Primary oxygen blow **means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).**

Responsible official **means responsible official as defined in §63.2.**

Secondary emissions **means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.**

Secondary emission control system **means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.**

Sinter cooler **means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.**

Sinter plant **means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.**

Skimming station **means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.**

Steel production cycle **means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.**

Top-blown furnace **means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from**

the top of the vessel.

Windboxes **means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.**

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For . .	You must comply with each of the following .
7. Each casthouse at an existing blast furnace	**a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf and** **b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 20 percent (6-minute average).**
8. Each casthouse at a new blast furnace	**a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.003 gr/dscf; and** **b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 15 percent (6-minute average).**

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For .	You have demonstrated initial compliance if
7. Each casthouse at an existing blast furnace...	**a. The average concentration of particulate matter from a control device applied to emissions from a casthouse, measured**

	according to the performance test procedures in § 63.7822(e), did not exceed0.01 gr/dscf; and **b. The opacity of secondary emissions from each casthouse, determined according to the performance test procedures in § 63.7823(c), did not exceed 20 percent (6-minute average).**

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For	You must demonstrate continuous compliance by.
7. Each casthouse at an existing blast furnace.	**a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf;** **b. Maintaining the opacity of secondary emissions that exit any opening in the casthouse or structure housing the blast furnace at or below 20 percent (6-minute average); and** **c. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	**Applicability.**	**Yes.**	
§ 63.2	**Definitions**	**Yes.**	
§ 63.3.	**Units and Abbreviations**	**Yes**	
§ 63.4	**Prohibited Activities**	**Yes.**	
§ 63.5	**Construction/Reconstruction**	**Yes.**	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	**Compliance with Standards and Maintenance Requirements.**	**Yes.**	

§ 63.6(h)(2)(i).	**Determining Compliance with Opacity and VE Standards**	**No.**	**Subpart FFFFF specifies Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.**
§ 63.7(a)(1)-(2)	**Applicability and Performance Test Dates**	**No**	**Subpart FFFFF and specifies performance test applicability and dates.**
§ 63.7(a)(3), (b), (c)-(h).	**Performance Testing Requirements.**	**Yes**	
§ 63.8(a)(1)-(a)(3), (b), (c)(1)-(3), (c)(4)(i)-(e), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). (ii), (c)(5) and (6),	**Monitoring Requirements**	**Yes**	**CMS requirements in § 63.8(c)(4) (i)-(d), and (e) apply only to COMS for electrostatic precipitators.**
§ 63.8(a)(4).	**Additional Monitoring Requirements for Control Devices in § 63.11.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.8(c)(4)	**Continuous Monitoring System Requirements.**	**No.**	**Subpart FFFFF specifies requirements for operation of CMS.**
§ 63.8(f)(6).	**RATA Alternative**	**No.**	
§ 63.9	**Notification Requirements.**	**Yes.**	**Additional notifications for CMS in § 63.9(g) apply to COMS for electrostatic precipitators.**
§ 63.9(g)(5).	**DATA Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	**Recordkeeping and Reporting Requirements.**	**Yes**	**Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for electrostatic precipitators.**
§ 63.10(b)(2)(xiii)	**CMS Records for RATA Alternative**	**No.**	
§ 63.10(c)(7)-(8)	**Records of Excess Emissions and Parameter Monitoring Exceedances for CMS**	**No.**	**Subpart FFFFF specifies record requirements.**
§ 63.11	**Control Device Requirements.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.12.	**State Authority and Delegations**	**Yes**	
§ 63.13-§ 63.15	**Addresses, Incorporation by Reference, Availability of Information.**	**Yes**	

Change 29:

326 IAC 326 6.8-1-3 (formerly 326 IAC 6-1-3) specifies that the appropriate method for determining compliance with the provisions of 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) is a Method 5 stack test. Since coal car bottom thaw shed CHY00071, coal car side thaw station CHT00001 and pet coke crusher used as a second coal crusher are sources of fugitive emissions, which do not vent to a stack, IDEM agrees that a reasonable interpretation of the rule is that it was not intended to apply to fugitive emissions. Therefore, IDEM has revised Condition D.1.2 as shown below:

D.1.2 ~~Particulate Emission Limitations [326 IAC 6.8-1-2(a)]~~ **Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]**

~~Pursuant to 326 IAC 6.8-1-2(a), particulate emissions from the coal car bottom thaw shed CHY00071, coal car side thaw station CHT00001 and pet coke crusher used as a second coal crusher shall not exceed three hundredths (0.03) grains per dry standard cubic feet (gr/dscf).~~

(a) Pursuant to 326 IAC 6-4-2:

(1) The coal car bottom thaw shed CHY00071, coal car side thaw station CHT00001 and pet coke crusher used as a second coal crusher generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from the coal car bottom thaw shed CHY00071, coal car side thaw station CHT00001 and pet coke crusher used as a second coal crusher generating fugitive dust shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

Change 30:

After further review IDEM shortened or removed the specific NESHAP requirements of 40 CFR 63 Subpart DDDDD, since the Permittee has until November 12, 2004 or upon start up of the Boilers No. 9 and 10 and the temporary boiler to comply. Addition of this requirement assures the compliance options chosen by the Permittee are incorporated into the Part 70 permit.

D.5.18 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit to comply with 40 CFR 63, Subpart DDDDD.

(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart DDDDD a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.

(b) The significant permit modification application for Boilers No. 9 and 10 and the temporary boiler shall be submitted no later than November 12, 2004 or upon start up of the Boilers No. 9 and 10 and the temporary boiler.

(c) The significant permit modification application for Boilers 1 through 8 shall be submitted no later than September 13, 2007.

(d) The significant permit modification application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Change 31:

326 IAC 326 6.8-1-3 (formerly 326 IAC 6-1-3) specifies that the appropriate method for determining compliance with the provisions of 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) is a Method 5 stack test. Since brazing equipment, cutting torches, soldering equipment, welding

equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents are sources of fugitive emissions, which do not vent to a stack, IDEM agrees that a reasonable interpretation of the rule is that it was not intended to apply to fugitive emissions. Therefore, IDEM has revised Condition D.17.1 as shown below:

D.17.1 ~~Particulate Emission Limitations [326 IAC 6.8-1-2(a)]~~ **Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]**

~~Pursuant to 326 IAC 6.8-1-2(a), particulate emissions from brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents shall not exceed three hundredths (0.03) grains per dry standard cubic feet (gr/dscf).~~

(a) Pursuant to 326 IAC 6-4-2:

(1) The brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100 (R) - U)}{U}$$

Where
P = Percentage increase
R = Number of particles of fugitive dust measured at downward receptor site
U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where
N = Fraction of fugitive dust that is respirable dust;
PR = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents generating fugitive dust shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

Change 32:

The Table of Contents Condition titles have been revised to match the Section D condition titles. Therefore the permit is revised as follows:

D.5.12 Particulate ~~Emissions~~ **Matter Control**

D.7.21 Requirement to Submit a Significant Permit Application [326 IAC 2-7-12] [326 IAC 2-7-5] ~~Record Keeping Requirements~~

Change 33:

These requirements from the Significant Source Modification 089-20118-00121, issued October 20, 2005 approval to construct the No. 14 Blast Furnace Reline Project are included in this permit. Therefore the permit is revised as follows:

D.7.14 Actual to Projected Actual Applicability Test [326 IAC 2-2-2(d)] [326 IAC 2-2-3(c)]

(a) Pursuant to SSM 089-20118-00121, issued October 20, 2005, 326 IAC 2-2-2(d) and 326 IAC 2-3-2(c), the No. 14 Blast Furnace Reline Project shall not cause a significant net emission increase for any of the pollutants listed in 326 IAC 2-2-1(xx) and 326 IAC 2-3-1(qq).

The significant net emission increase shall be determined using the Actual to Projected Actual Applicability Test.

Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) are not applicable.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when the new or modified equipment begins normal operation.

(c) If there is a reasonable possibility that the No. 14 Blast Furnace Reline Project may

result in a significant emission increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and 326 IAC 2-3-1 (mm)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and 326 IAC 2-3-1(ll)) at an existing emission unit, document and maintain the following records:

(A) A description of the project;

(B) Identification of any emission unit whose emissions of a regulated new source review (NSR) pollutant could be affected by the project;

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emission unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or the potential to emit that regulated NSR pollutant at the emission unit.

D.7.15 Volatile Organic Compounds (VOC) De Minimis [326 IAC 2-3-2(b)]

Pursuant to SSM 089-20118-00121, issued October 20, 2005 and 326 IAC 2-3-2(b), the VOC emissions increases for the five (5) calendar year period January 2000 to December 2005 plus the net emission increase from the No. 14 Blast Furnace Reline Project resulted in an emission increase less than the VOC de minimis level (25 tons per year).

Change 34:

Condition B.13 title has been revised to clarify permit supersession. Therefore, the permit is revised as follows:

B.13 Prior Permit**s** ~~Conditions~~ Superceded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

Change 35:

Upon further review, IDEM has decided to remove (d) concerning nonroad engines from B.18 Permit Amendment or Modification. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, ~~P.O. Box 6015~~
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

Change 36:

The date to comply with 40 CFR 63 Subpart CCCCC has past. Therefore, the compliance date is removed from Condition D.2.1(b).

D.2.1 General Provisions relating to National Emission Standards for Hazardous Air Pollutant (NESHAP) [326 IAC 20-3][40 CFR Part 63, Subpart A] [40 CFR 63 Subpart L] [Table 1of 40 CFR 63 Subpart CCCCC]

(a) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-3, apply to Battery 2, Battery 3, Battery 5 and Battery 7, except when otherwise specified in 40 CFR Part 63, Subpart L.

(b) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to Battery 2, Battery 3, Battery 5 and Battery 7, except when otherwise specified in Table 1 of 40 CFR Part 63, Subpart CCCCC. ~~The Permittee must comply with these requirements on April 14, 2006.~~

Change 37:

After further review IDEM has removed the requirement to submit a significant permit modification to include the specific 40 CFR 63 Subpart FFFFF NESHAP requirements from this condition and added the specific requirements associated with the with the sinter plant in the renumbered Condition D.6.16,

because the Permittee must comply with these requirements no later than May 22, 2006. Therefore the permit is revised as follows:

~~D.6.26 Requirements to Submit a Significant Permit Application [326 IAC 2-7-12] [326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM-OAQ to include information from the notification of compliance status in the Part 70 permit.~~

~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient to IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart FFFFF, a description of the affected source and activities subject to the standard and a description of how the Permittee will meet the applicable requirements of the standard.~~

~~(b) The significant permit modification application shall be submitted no later than August 22, 2005.~~

~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204~~

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or

more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing sinter plant at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler.

(d) A sinter plant at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A sinter plant at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you no later than May 22, 2006.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your

affected source.

Emission Limitations

§63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) and (2) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a sinter plant discharge end at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

(d) For each sinter plant, you must either:

(1) Maintain the 30-day rolling average oil content of the feedstock at or below 0.02 percent; or

(2) Maintain the 30-day rolling average of volatile organic compound emissions from the windbox exhaust stream at or below 0.2 lb/ton of sinter.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and

maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and

complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must also conduct a performance test to demonstrate initial compliance with the 30-

day rolling average operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1) or alternative limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2). You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any

releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(c) For each sinter plant windbox exhaust stream, you must complete the requirements of paragraphs (c)(1) and (2) of this section:

(1) Follow the procedures in your operation and maintenance plan for measuring and recording the sinter production rate for each test run in tons per hour; and

(2) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows:

$$E_p = \frac{C \times Q}{P \times K} \qquad \text{(Eq. 1)}$$

Where:

E_p = Process-weighted mass emissions of particulate matter, lb/ton;

C = Concentration of particulate matter, grains per dry standard cubic foot (gr/dscf);

Q = Volumetric flow rate of stack gas, dry standard cubic foot per hour (dscf/hr);

P = Production rate of sinter during the test run, tons/hr; and

K = Conversion factor, 7,000 grains per pound (gr/lb).

(d) If you apply two or more control devices in parallel to emissions from a sinter plant discharge end, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream "i", gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream "i", dry standard cubic foot per minute (dscfm).

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages.

§63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of

the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section.

(1) Using the continuous parameter monitoring system (CPMS) required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

(d) You may change the operating limits for a capture system, venturi scrubber, if you meet the requirements in paragraphs (d)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

(e) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (e)(1) through (3) of this section.

(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, "n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples," (Revision 2, April 1998). Method 9071B is incorporated by reference (see

§63.14) and is published in EPA Publication SW–846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." Record the sampling date and time, oil content values, and sinter produced (tons/day).

(2) Continue the sampling and analysis procedure for 30 consecutive days.

(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.

(f) To demonstrate initial compliance with the alternative operating limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2), follow the test methods and procedures in paragraphs (f)(1) through (5) of this section.

(1) Determine the volatile organic compound emissions according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 25 to determine the mass concentration of volatile organic compound emissions (total gaseous nonmethane organics as carbon) from the sinter plant windbox exhaust stream stack.

(2) Determine volatile organic compound (VOC) emissions every 24 hours (from at least three samples taken at 8-hour intervals) using Method 25 in 40 CFR part 60, appendix A. Record the sampling date and time, sampling results, and sinter produced (tons/day).

(3) Compute the process-weighted mass emissions (E_v) each day using Equation 1 of this section as follows:

$$E_v = \frac{M_c \times Q}{35.31 \times 454,000 \times K} \qquad \text{(Eq. 1)}$$

Where:

E_v = Process-weighted mass emissions of volatile organic compounds, lb/ton;

M_c = Average concentration of total gaseous nonmethane organics as carbon by Method 25 (40 CFR part 60, appendix A), milligrams per dry standard cubic meters

(mg/dscm) for each day;

Q = Volumetric flow rate of stack gas, dscf/hr;

35.31 = Conversion factor (dscf/dscm);

454,000 = Conversion factor (mg/lb); and

K = Daily production rate of sinter, tons/hr.

(4) Continue the sampling and analysis procedure in paragraphs (f)(1) through (3) of this section for 30 consecutive days.

(5) Compute and record the 30-day rolling average of VOC emissions for each operating day.

(g) You may use an alternative test method to determine the oil content of the sinter plant feedstock or the volatile organic compound emissions from the sinter plant windbox exhaust stack if you have already demonstrated the equivalency of the alternative method for a specific plant and have received previous approval from the applicable permitting authority.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b); and

(b) For each existing or new sinter plant subject to the operating limit in §63.7790(d)(1), you have demonstrated initial compliance if the 30-day rolling average of the oil content of the feedstock, measured during the initial performance test in accordance with §63.7824(e) is no more than 0.02 percent or the volatile organic compound emissions from the sinter plant windbox exhaust stream, measured during the initial performance test in accordance with §63.7824(f), is no more than 0.2 lb/ton of sinter produced.

(c) For each emission limitation that applies to you, you must submit a notification

of compliance status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a sinter plant discharge end you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, if applicable, detailed descriptions of the procedures you use for corrective action for baghouses;

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from

the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(2) If you use a flow measurement device to monitor the operating limit parameter for a sinter plant discharge end, you must monitor the hourly average rate (*e.g.,* the hourly average actual volumetric flow rate through each separately ducted hood, the average hourly total volumetric flow rate at the inlet to the control device) according to the requirements in §63.7832.

(b) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(3) Check the compressed air supply for pulse-jet baghouses each day.

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

(d) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the 6-minute average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(e) For each sinter plant subject to the operating limit in §63.7790(d), you must either:

(1) Compute and record the 30-day rolling average of the oil content of the feedstock for each operating day using the procedures in §63.7824(e); or

(2) Compute and record the 30-day rolling average of volatile organic compound emissions (lbs/ton of sinter) for each operating day using the procedures in §63.7824(f).

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through (6) of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance," EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm

may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(h) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain each COMS according to the requirements in paragraphs (h)(1) through (4) of this section.

(1) You must install, operate, and maintain each COMS according to Performance Specification 1 in 40 CFR part 60, appendix B.

(2) You must conduct a performance evaluation of each COMS according to §63.8 and Performance Specification 1 in appendix B to 40 CFR part 60.

(3) Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(4) COMS data must be reduced as specified in §63.8(g)(2).

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) and (2) of this section:

(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.

(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by completing the requirements of paragraphs (d)(1) through (3) of this section:

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(e) For each electrostatic precipitator subject to the site-specific opacity operating limit in §63.7790(b)(3), you must demonstrate continuous compliance by completing the requirements of paragraphs (e)(1) and (2) of this section:

(1) Maintaining the average opacity of emissions for each 6-minute period no higher than the site-specific limit established during the initial or subsequent performance

test; and

(2) Operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(f) For each new or existing sinter plant subject to the operating limit in §63.7790(d), you must demonstrate continuous compliance by either:

(1) For the sinter plant feedstock oil content operating limit in §63.7790(d)(1),

(i) Computing and recording the 30-day rolling average of the percent oil content for each operating day according to the performance test procedures in §63.7824(e);

(ii) Recording the sampling date and time, oil content values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average oil content of the feedstock no higher than 0.02 percent.

(2) For the volatile organic compound operating limit in §63.7790(d)(2),

(i) Computing and recording the 30-day rolling average of volatile organic compound emissions for each operating day according to the performance test procedures in §63.7824(f);

(ii) Recording the sampling date and time, sampling values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average of volatile organic compound emissions no higher than 0.2 lb/ton of sinter produced.

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through (3) of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a bag leak detection system alarm according to §63.7800(b)(4) and recording all information needed to document

conformance with these requirements.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance

status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during

another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or

notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1

through 63.15 apply to you.

§63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90, except for approval of an alternative method for the oil content of the sinter plant feedstock or volatile organic compound measurements for the sinter plant windbox exhaust stream stack as provided in §63.7824(g).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

***Bag leak detection system* means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.**

***Basic oxygen process furnace* means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown**

furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop **means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.**

Basic oxygen process furnace shop ancillary operations **means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.**

Blast furnace **means a furnace used for the production of molten iron from iron ore and other iron bearing materials.**

Bottom-blown furnace **means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.**

Casthouse **means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.**

Certified observer **means a visible emission observer certified to perform EPA Method 9 opacity observations.**

Desulfurization **means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.**

Deviation **means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:**

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end **means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.**

Emission limitation **means any emission limit, opacity limit, or operating limit.**

Hot metal transfer station **means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.**

Integrated iron and steel manufacturing facility **means an establishment engaged in the production of steel from iron ore.**

Ladle metallurgy **means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.**

Primary emissions **means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.**

Primary emission control system **means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).**

Primary oxygen blow **means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).**

Responsible official **means responsible official as defined in §63.2.**

Secondary emissions **means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.**

Secondary emission control system **means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.**

Sinter cooler **means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.**

Sinter plant **means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to**

produce a fused sinter product.

Skimming station **means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.**

Steel production cycle **means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.**

Top-blown furnace **means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.**

Windboxes **means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.**

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
1. Each windbox exhaust stream at an existing sinter plant.	You must not cause to be discharged to the atmosphere any gases that contain particulate matter in excess of 0.4 lb/ton of product sinter.
3. Each discharge end at an existing sinter plant	a. You must not cause to be discharged to the atmosphere any gases that exit from one or more control devices that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf \1\; and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the building or structure housing the discharge end that exhibit opacity greater than 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant	You must not cause to be discharged to the atmosphere any gases that contain particulate matter in excess of 0.03 gr/dscf.

\1\ This limit applies if the cooler is vented to the same control device as the discharge end.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
1. Each windbox exhaust stream at an existing sinter plant	The process-weighted mass rate of particulate matter from a windbox exhaust stream, measured according to the performance test procedures in § 63.7822(c), did not exceed 0.4 lb/ton of product sinter.
3. Each discharge end at an existing sinter plant	a. The flow-weighted average concentration of particulate matter from one or more control devices applied to emissions from a discharge end, measured according to the performance test procedures in § 63.7822(d), did not exceed 0.02 gr/dscf; and b. The opacity of secondary emissions from each discharge end, determined according to the performance test procedures in §63.7823(c), did not exceed 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant.	The average concentration of particulate matter from a sinter cooler stack, measured according to the performance test procedures in §63.7822(b), did not exceed 0.03 gr/dscf.

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by .
1. Each windbox exhaust stream at an existing sinter plant	a. Maintaining emissions of particulate matter at or below 0.4lb/ton of product sinter; and b. Conducting subsequent performance tests at least twice during each term of your

	title V operating permit (at midterm and renewal).
3. Each discharge end at an existing sinter plant.	**a. Maintaining emissions of particulate matter from one or more control devices at or below 0.02 gr/dscf; and** **b. Maintaining the opacity of secondary emissions that exit any opening in the building or structure housing the discharge end at or below 20 percent (6-minute average); and** **c. Conducting subsequent performance tests at least twice during each term of your title V operating permit (at midterm and renewal).**
5. Each sinter cooler stack at an existing sinter plant	**a. Maintaining emissions of particulate matter at or below 0.03 gr/dscf; and** **b. Conducting subsequent performance sinter plant tests at least twice during each term of your title V operating permit (at midterm and renewal).**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.

§ 63.7(a)(3), (b), (c)-(h).	**Performance Testing Requirements.**	**Yes**	
§ 63.8(a)(1)-(a)(3), (b), (c)(1)-(3), (c)(4)(i)-(e), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). (ii), (c)(5) and (6),	**Monitoring Requirements**	**Yes**	**CMS requirements in § 63.8(c)(4) (i)-(d), and (e) apply only to COMS for electrostatic precipitators.**
§ 63.8(a)(4).	**Additional Monitoring Requirements for Control Devices in § 63.11.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.8(c)(4)	**Continuous Monitoring System Requirements.**	**No.**	**Subpart FFFFF specifies requirements for operation of CMS.**
§ 63.8(f)(6).	**RATA Alternative**	**No.**	
§ 63.9	**Notification Requirements.**	**Yes.**	**Additional notifications for CMS in § 63.9(g) apply to COMS for electrostatic precipitators.**
§ 63.9(g)(5).	**DATA Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	**Recordkeeping and Reporting Requirements.**	**Yes**	**Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS for electrostatic precipitators.**
§ 63.10(b)(2)(xiii)	**CMS Records for RATA Alternative**	**No.**	
§ 63.10(c)(7)-(8)	**Records of Excess Emissions and Parameter Monitoring Exceedances for CMS**	**No.**	**Subpart FFFFF specifies record requirements.**
§ 63.11	**Control Device Requirements.**	**No**	**Subpart FFFFF does not require flares.**
§ 63.12.	**State Authority and Delegations**	**Yes**	
§ 63.13-§ 63.15	**Addresses, Incorporation by Reference, Availability of Information.**	**Yes**	

Change 38:

IDEM has clarified the Section C General Record Keeping Requirements condition as follows:

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring

sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

(c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:

(1) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)~~(3)~~ **(iii)** and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

Change 39:

After further review, IDEM has determined the Permittee does not have to submit the Annual Compliance Certification in letter form. Therefore the permit is revised as follows:

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through

December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted ~~in letter form~~ no later than April 15 of each year to:

Change 40

IDEM has clarified the Section B - Permit Shield Requirements condition as follows:

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed ~~in~~ compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

Change 41:

On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule. Therefore, the following changes will be made to the permit:

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	attainment
SO_2	~~non-attainment~~ **attainment**
NO_2	attainment
~~1-hour Ozone~~	~~severe non-attainment~~
8-hour Ozone	basic non-attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. **Therefore,**

~~(1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties,~~

~~including the lower NOx threshold for non-attainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as non-attainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.~~

~~(2)~~ VOC and NOx emissions are considered when evaluating the rule applicability relating to the ~~8-hour~~ ozone standard. Lake County has been designated as non-attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for ~~non-attainment new source review~~ **Emission Offset, 326 IAC 2-3.**

~~(b) Lake County has been classified as non-attainment for SO_2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3 . See the State Rule Applicability for the source section.~~

~~(c)~~**(b)** Lake County has been classified as attainment for PM_{10}, NOx, CO, **SO_2** and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

~~(d)~~ **(c)** Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Change 42:

The EPA amended the national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. The final rule is effective July 13, 2006. The amended rule adds a new compliance option, revise emission limitations, reduce the frequency of repeat performance tests for certain emission units, add corrective action requirements, and clarify monitoring, recordkeeping, and reporting requirements. Conditions D.6.16, D.7.16 D.8.15, and D.9.17 are revised to include the amended NESHAP rule language. The4 permit is revised as follows:

D.6.16 National Emission Standards for Hazardous Air Pollutants (HAPs): Integrated iron and Steel Manufacturing – Sinter Plants [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing sinter plant at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler.

(d) A sinter plant at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A sinter plant at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you ~~no later than May 22, 2006~~ **by the dates specified in paragraphs (a)(1) and (2) of this section.**

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(2) No later than January 13, 2007 for a sinter cooler at an existing sinter plant.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) and (2) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a sinter plant discharge end at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the

operating parameters to be monitored is subject to approval by the Administrator.

(d) For each sinter plant, you must either:

(1) Maintain the 30-day rolling average oil content of the feedstock at or below 0.02 percent; or

(2) Maintain the 30-day rolling average of volatile organic compound emissions from the windbox exhaust stream at or below 0.2 lb/ton of sinter.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or

static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions~~.; and~~

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

~~(5)~~**(7)** Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and

maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must also conduct a performance test to demonstrate initial compliance with the 30-day rolling average operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1) or alternative limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2). You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart ~~no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every~~

~~2.5 years.~~ **at the frequencies specified in paragraphs (b) through (d) of this section.**

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(c) For each sinter plant windbox exhaust stream, you must complete the requirements of

paragraphs (c)(1) and (2) of this section:

(1) Follow the procedures in your operation and maintenance plan for measuring and recording the sinter production rate for each test run in tons per hour; and

(2) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows:

$$E_p = \frac{C \times Q}{P \times K} \qquad \text{(Eq. 1)}$$

Where:

E_p = Process-weighted mass emissions of particulate matter, lb/ton;

C = Concentration of particulate matter, grains per dry standard cubic foot (gr/dscf);

Q = Volumetric flow rate of stack gas, dry standard cubic foot per hour (dscf/hr);

P = Production rate of sinter during the test run, tons/hr; and

K = Conversion factor, 7,000 grains per pound (gr/lb).

(d) If you apply two or more control devices in parallel to emissions from a sinter plant discharge end, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate

initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages.

(**e) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter cooler at an existing sinter plant:**

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages.

(3) Make visible emission observations of uncovered portions of sinter plant coolers with the observer's line of sight generally in the direction of the center of the cooler.

§63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the

capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. **You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.**

(1) Using the ~~continuous parameter monitoring system (~~CPMS~~)~~ required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

~~(d)~~ **(c)** You may change the operating limits for a capture system, venturi scrubber, if you meet the requirements in paragraphs ~~(d)~~ **(c)** (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

~~(e)~~ **(d)** For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs ~~(e)~~**(d)**)(1) through (3) of this section.

(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, “n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples,” (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW–846 “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.” Record the sampling date and time, oil content values, and sinter produced (tons/day).

(2) Continue the sampling and analysis procedure for 30 consecutive days.

(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.

(f) To demonstrate initial compliance with the alternative operating limit for volatile organic compound emissions from the sinter plant windbox exhaust stream in §63.7790(d)(2),

follow the test methods and procedures in paragraphs (f)(1) through (5) of this section.

(1) Determine the volatile organic compound emissions according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 25 to determine the mass concentration of volatile organic compound emissions (total gaseous nonmethane organics as carbon) from the sinter plant windbox exhaust stream stack.

(2) Determine volatile organic compound (VOC) emissions every 24 hours (from at least three samples taken at 8-hour intervals) using Method 25 in 40 CFR part 60, appendix A. Record the sampling date and time, sampling results, and sinter produced (tons/day).

(3) Compute the process-weighted mass emissions (E_v) each day using Equation 1 of this section as follows:

$$E_v = \frac{M_c \times Q}{35.31 \times 454,000 \times K} \qquad \text{(Eq. 1)}$$

Where:

E_v = Process-weighted mass emissions of volatile organic compounds, lb/ton;

M_c = Average concentration of total gaseous nonmethane organics as carbon by Method 25 (40 CFR part 60, appendix A), milligrams per dry standard cubic meters (mg/dscm) for each day;

Q = Volumetric flow rate of stack gas, dscf/hr;

35.31 = Conversion factor (dscf/dscm);

454,000 = Conversion factor (mg/lb); and

K = Daily production rate of sinter, tons/hr.

(4) Continue the sampling and analysis procedure in paragraphs (f)(1) through (3) of this

section for 30 consecutive days.

(5) Compute and record the 30-day rolling average of VOC emissions for each operating day.

(g) You may use an alternative test method to determine the oil content of the sinter plant feedstock or the volatile organic compound emissions from the sinter plant windbox exhaust stack if you have already demonstrated the equivalency of the alternative method for a specific plant and have received previous approval from the applicable permitting authority.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b). ~~and~~

(b) For each existing or new sinter plant subject to the operating limit in §63.7790(d)(1), you have demonstrated initial compliance if the 30-day rolling average of the oil content of the feedstock, measured during the initial performance test in accordance with §63.7824(e) is no more than 0.02 percent. ~~or the volatile organic compound emissions from the sinter plant windbox exhaust stream, measured during the initial performance test in accordance with §63.7824(f), is no more than 0.2 lb/ton of sinter produced.~~ **For each existing or new sinter plant subject to the alternative operating limit in §63.7790(d)(2), you have demonstrated initial compliance if the 30-day rolling average of the volatile organic compound emissions from the sinter plant windbox exhaust stream, measured during the initial performance test in accordance with §63.7824(e) is no more than 0.2 lb/ton of sinter produced.**

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a sinter plant discharge end you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1)

through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, ~~if~~ **as** applicable, detailed descriptions of the ~~procedures you use for~~ corrective action **procedures** for baghouses **and or control devices;**

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(2) If you use a flow measurement device to monitor the operating limit parameter for a sinter plant discharge end, you must monitor the hourly average rate (*e.g.,* the hourly average actual volumetric flow rate through each separately ducted hood, the average hourly total volumetric flow rate at the inlet to the control device) according to the

requirements in §63.7832.

(b) ~~For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.~~

~~(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.~~

~~(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.~~

~~(3) Check the compressed air supply for pulse-jet baghouses each day.~~

~~(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.~~

~~(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.~~

~~(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.~~

~~(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.~~

~~(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.~~

(**b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.**

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that

meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

(d) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the 6-minute average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(e) For each sinter plant subject to the operating limit in §63.7790(d), you must either:

(1) Compute and record the 30-day rolling average of the oil content of the feedstock for each operating day using the procedures in §63.7824(e); or

(2) Compute and record the 30-day rolling average of volatile organic compound emissions (lbs/ton of sinter) for each operating day using the procedures in §63.7824(f).

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through ~~(6)~~ **(8)**of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(8) Corrective action procedures you will follow in the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your

site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(h) For each electrostatic precipitator subject to the opacity operating limit in §63.7790(b)(3), you must install, operate, and maintain each COMS according to the

requirements in paragraphs (h)(1) through (4) of this section.

(1) You must install, operate, and maintain each COMS according to Performance Specification 1 in 40 CFR part 60, appendix B.

(2) You must conduct a performance evaluation of each COMS according to §63.8 and Performance Specification 1 in appendix B to 40 CFR part 60.

(3) Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(4) COMS data must be reduced **to 6-minute averages** as specified in §63.8(g)(2) **and to hourly averages where required by this subpart.**.

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect,

reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) ~~and~~ **or** (2) of this section **as applicable, and paragraphs (c)(3) and (4) of this section:**

~~(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.~~

~~(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.~~

(**1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.**

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by ~~completing~~ **meeting** the requirements of paragraphs (d)(1) through ~~(3)~~ **(4)** of this section:

~~(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;~~

~~(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and~~

~~(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance~~

~~with these requirements.~~

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

(e) For each electrostatic precipitator subject to the ~~site-specific~~ opacity operating limit in §63.7790(b)(3), you must demonstrate continuous compliance by ~~completing~~ **meeting** the requirements of paragraphs (e)(1) and ~~(2)~~ **(3)** of this section:

~~(1) Maintaining the average opacity of emissions for each 6-minute period no higher than the site-specific limit established during the initial or subsequent performance test; and~~

~~(2) Operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).~~

(1) Maintaining the hourly average opacity of emissions no higher than 10 percent; and

(2) Operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) If the hourly average opacity of emissions exceeds 10 percent, you must follow the corrective action procedures in paragraph (g) of this section.

(f) For each new or existing sinter plant subject to the operating limit in §63.7790(d), you must demonstrate continuous compliance by either:

(1) For the sinter plant feedstock oil content operating limit in §63.7790(d)(1),

(i) Computing and recording the 30-day rolling average of the percent oil content for each operating day according to the performance test procedures in §63.7824~~(e)~~(**d),**

(ii) Recording the sampling date and time, oil content values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average oil content of the feedstock no higher than 0.02 percent.

(2) For the volatile organic compound operating limit in §63.7790(d)(2),

(i) Computing and recording the 30-day rolling average of volatile organic compound emissions for each operating day according to the performance test procedures in §63.7824(~~f)~~**(e)**;

(ii) Recording the sampling date and time, sampling values, and sinter produced (tons/day); and

(iii) Maintaining the 30-day rolling average of volatile organic compound emissions no higher than 0.2 lb/ton of sinter produced.

(g) If the hourly average pressure drop or water flow rate for a venturi scrubber or hourly average opacity for an electrostatic precipitator exceeds the operating limit, you must follow the procedures in paragraphs (g)(1) through (4) of this section.

(1) You must initiate corrective action to determine the cause of the exceedance within 1 hour. During any period of corrective action, you must continue to monitor and record all required operating parameters for equipment that remains in operation. Within 24 hours of the exceedance, you must measure and record the hourly average operating parameter value for the emission unit on which corrective action was taken. If the hourly average parameter value meets the applicable operating limit, then the corrective action was successful and the emission unit is in compliance with the applicable operating limit.

(2) If the initial corrective action required in paragraph (g)(1) of this section was not successful, you must complete additional corrective action within the next 24 hours (48 hours from the time of the exceedance). During any period of corrective action, you must continue to monitor and record all required operating parameters for equipment that remains in operation. After this second 24-hour period, you must again measure and record the hourly average operating parameter value for the emission unit on which corrective action was taken. If the hourly average parameter value meets the applicable operating limit, then the corrective action was successful and the emission unit is in compliance with the applicable operating limit.

(3) For purposes of paragraphs (g)(1) and (2) of this section, in the case of an exceedance of the hourly average opacity operating limit for an electrostatic precipitator, measurements of the hourly average opacity based on visible emission observations in accordance with Method 9 (40 CFR part 60, appendix A) may be taken to evaluate the effectiveness of corrective action.

(4) If the second attempt at corrective action required in paragraph (g)(2) of this section was not successful, you must report the exceedance as a deviation in your next semiannual compliance report according to §63.7841(b).

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a **baghouse equipped with a** bag leak detection system ~~alarm~~ **or COMS** according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements**, including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.**

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

.(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* **Except as provided in §63.7833(g),** You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in

accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20, 2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source

in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the

information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your

startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90, except for approval of an alternative method for the oil content of the sinter plant feedstock or volatile organic compound measurements for the sinter plant windbox exhaust stream stack as provided in §63.7824~~(g)~~ **(f)**.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as

defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the

capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
1. Each windbox exhaust stream at an existing sinter plant.	You must not cause to be discharged to the atmosphere any gases that contain particulate matter in excess of 0.4 lb/ton of product sinter.
3. Each discharge end at an existing sinter plant	a. You must not cause to be discharged to the atmosphere any gases that exit from one or more control devices that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf \1\;\2\ and

	b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the building or structure housing the discharge end that exhibit opacity greater than 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant	You must not cause to be discharged to the atmosphere any gases that ~~contain particulate matter in excess of 0.03 gr/dscf~~. exhibit opacity greater than 10 percent (6-minute average).

\1\ This limit applies if the cooler is vented to the same control device as the discharge end.
\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant if the control device was installed before August 30, 2005.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
1. Each windbox exhaust stream at an existing sinter plant	The process-weighted mass rate of particulate matter from a windbox exhaust stream, measured according to the performance test procedures in § 63.7822(c), did not exceed 0.4 lb/ton of product sinter.
3. Each discharge end at an existing sinter plant	a. The flow-weighted average concentration of particulate matter from one or more control devices applied to emissions from a discharge end, measured according to the performance test procedures in § 63.7822(d), did not exceed 0.02 gr/dscf; and b. The opacity of secondary emissions from each discharge end, determined according to the performance test procedures in §63.7823(c), did not exceed 20 percent (6-minute average).
5. Each sinter cooler stack at an existing sinter plant.	~~The average concentration of particulate matter from a sinter cooler stack, measured according to the performance test procedures in §63.7822(b), did not exceed 0.03 gr/dscf.~~ The opacity of emissions determined according to the performance test procedures in §63.7823(e), did not exceed 10 percent (6-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by .
1. Each windbox exhaust stream at an existing sinter plant	a. Maintaining emissions of particulate matter at or below 0.4lb/ton of product sinter; and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ the frequencies specified in § 63.7821.
3. Each discharge end at an existing sinter plant.	a. Maintaining emissions of particulate matter from one or more control devices at or below 0.02 gr/dscf; and b. Maintaining the opacity of secondary emissions that exit any opening in the building or structure housing the discharge end at or below 20 percent (6-minute average); and c. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ the frequencies specified in § 63.7821.
5. Each sinter cooler stack at an existing sinter plant	a. Maintaining emissions of particulate matter at or below 0.03 gr/dscf; and b. Conducting subsequent performance sinter plant tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ the frequencies specified in §63.7821.

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c),	Compliance with Standards	Yes.	

(d), (e) (f), (g), (h)(2)(ii)-(h)(9)	and Maintenance Requirements.		
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies ~~Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.~~ methods and procedures for determining compliance with opacity emission and operating limits
§63.6(i)	Extension of Compliance with Emission Standards.	Yes.	
§ 63.6(j).	Exemption from compliance with Emission Standards	Yes.	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-~~(a)(~~3), (b), (c)(1)-(3), (c)(4)(i)-(~~e~~) (ii), (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). ~~(ii),~~	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-(ii), (c) (5)-(6), (d), and (e) apply only to COMS ~~for electrostatic precipitators.~~
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	Data Reduction	No	Subpart FFFFF specifies data reduction requirements.
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS ~~for electrostatic precipitators~~.
~~§ 63.9(g)(5).~~	~~DATA Reduction~~	~~No~~	~~Subpart FFFFF specifies data reduction requirements.~~
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS ~~for electrostatic precipitators~~.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	

§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	Subpart FFFFF specifies reporting requirements
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

D.7.16 National Emissions Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel Manufacturing - Blast Furnaces [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing blast furnace at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the blast furnace casthouse.

(d) A blast furnace at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A blast furnace at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7783 When do I have to comply with this subpart?

((a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you ~~no later than May 22, 2006~~ **by the dates specified in paragraphs (a)(1) and (2) of this section.**

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(2) No later than January 13, 2007 for a sinter cooler at an existing sinter plant.

(b) If you have a new affected source and its initial startup date is on or before May 20, 2003, then you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you by May 20, 2003.

(c) If you have a new affected source and its initial startup date is after May 20, 2003, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraph (b)(1) of this section that applies to you.

(1) You must operate each capture system applied to emissions from a blast furnace casthouse at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to emissions from a sinter plant discharge end or blast furnace casthouse, or to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i)

through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with

your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

~~(5)~~ **(7)** Procedures for determining and recording the daily sinter plant production rate in tons per hour.

General Compliance Requirements

§63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

(c) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, you must demonstrate initial compliance with either the proposed emission limit or the promulgated emission limit no later than November 17, 2003 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between July 13, 2001 and May 20, 2003, and you chose to comply with the proposed emission limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limit by November 17, 2006, or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart ~~no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.~~ **at the frequencies specified in paragraphs (b) through (d) of this section.**

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(e) For a control device applied to emissions from a blast furnace casthouse, sample for an integral number of furnace tapping operations sufficient to obtain at least 1 hour of sampling for each test run.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a blast furnace casthouse:

(1) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter.

(2) Obtain a minimum of 30 6-minute block averages. For a blast furnace casthouse, make observations during tapping of the furnace. Tapping begins when the furnace is opened, usually by creating a hole near the bottom of the furnace, and ends when the hole is plugged.

§63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

~~(d)~~ **(c)** You may change the operating limits for a capture system **or venture scrubber** if you meet the requirements in paragraphs ~~(d)~~ **(c)**(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

§63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to emissions from a blast furnace casthouse, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed

descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, ~~if~~ **as** applicable, detailed descriptions of the ~~procedures you use for~~ corrective action **procedures** for baghouses **and or control devices;**

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraph (a)(1) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(b) ~~For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.~~

~~(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.~~

~~(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.~~

~~(3) Check the compressed air supply for pulse-jet baghouses each day.~~

~~(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.~~

~~(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.~~

~~(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.~~

~~(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.~~

~~(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.~~

(**b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.**

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies

according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

§63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through ~~(6)~~ **(8)** of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general

requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set

points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

§63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in

paragraphs (c)(1) ~~and~~ **or** (2) of this section **as applicable, and paragraphs (c)(3) and (4) of this section:**

~~(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.~~

~~(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.~~

(**1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.**

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

§63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3~~) **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a **baghouse equipped with a** bag leak detection system ~~alarm~~ **or COMS** according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements**, including the time you**

initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* **Except as provided in §63.7833(g),**You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(c) As specified in §63.9(b)(3), if you start your new affected source on or after May 20,

2003, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control

as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance

status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and

other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process

furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused

sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For . .	You must comply with each of the following .
7. Each casthouse at an existing blast furnace	a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf **\2** and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 20 percent (6-minute average).
8. Each casthouse at a new blast furnace	a. You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.003 gr/dscf; and b. You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the casthouse or structure housing the blast furnace that exhibit opacity greater than 15 percent (6-minute average).

\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For .	You have demonstrated initial compliance if
7. Each casthouse at an existing blast furnace...	a. The average concentration of particulate matter from a control device applied to emissions from a casthouse, measured according to the performance test procedures in § 63.7822(e), did not exceed0.01 gr/dscf; and b. The opacity of secondary emissions from

	each casthouse, determined according to the performance test procedures in § 63.7823(c), did not exceed 20 percent (6-minute average).
8. Each casthouse at a new blast furnace	**a. The average concentration of particulate matter from a control device applied to emissions from a casthouse, measured according to the performance test procedures in § 63.7822(e), did not exceed 0.003 gr/dscf; and** **b. The opacity of secondary emissions from each casthouse, determined according to the performance test procedures in§ 63.7823(c), did not exceed 15 percent (6-minute average**

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For	You must demonstrate continuous compliance by.
7. Each casthouse at an existing blast furnace.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf; **and** b. Maintaining the opacity of secondary emissions that exit any opening in the casthouse or structure housing the blast furnace at or below 20 percent (6-minute average); and c. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
8. Each casthouse at a new	**a. Maintaining emissions of furnace particulate matter from a control device at or below 0.003 gr/dscf; and** **b. Maintaining the opacity of secondary emissions that exit any opening in the casthouse or structure housing the casthouse at or below 15 percent (6-minute average);and** **c. Conducting subsequent performance tests at the frequencies specified in § 63.782**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation

§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies ~~Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.~~ **methods and procedures for determining compliance with opacity emission and operating limits**
§63.6(i)	**Extension of Compliance with Emission Standards.**	**Yes.**	
§ 63.6(j).	**Exemption from compliance with Emission Standards**	**Yes.**	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-~~(a)(~~3), (b), (c)(1)-(3), (c)(4)(i)-(~~e~~) **(ii)**, (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). ~~(ii),~~	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-**(ii), (c) (5)-(6),** (d), and (e) apply only to COMS ~~for electrostatic precipitators.~~
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	**Data Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS ~~for electrostatic precipitators~~.
~~§ 63.9(g)(5).~~	~~DATA Reduction~~	~~No~~	~~Subpart FFFFF specifies data reduction requirements.~~
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv),	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-

(b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).			(15), and reports in §63.10(d)(1)-(2) apply only to COMS ~~for electrostatic precipitators~~.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	**Subpart FFFFF specifies reporting requirements**
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

D.8.15 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or

any combination of HAP at a rate of 25 tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you ~~no later than May 22, 2006~~ **by the dates specified in paragraphs (a)(1) and (2) of this section.**

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(2) No later than January 13, 2007 for a sinter cooler at an existing sinter plant.

(d) If your integrated iron and steel manufacturing facility is not a major source and becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the **hourly** average opacity of emissions ~~for each 6-minute period at or below the site-specific opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values established during the initial performance test~~ **exiting the control device at or below 10 percent.**

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the

ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

~~(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.~~

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance

status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart ~~no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.~~ **at the frequencies specified in paragraphs (b) through (d) of this section.**

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the

operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter, record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan

according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. **You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.**

(1) Using the ~~continuous parameter monitoring system (~~CPMS~~)~~ required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

~~(d)~~ **(c)** You may change the operating limits for a capture system **or** venturi scrubber, if you meet the requirements in paragraphs ~~(d)~~ **(c)** (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

~~(d) You may change the operating limits for a capture system, venturi scrubber, or electrostatic precipitator if you meet the requirements in paragraphs (d)(1) through (3) of this section.~~

~~(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.~~

~~(2) Conduct a performance test to demonstrate compliance with the applicable emission~~

~~limitation in Table 1 to this subpart.~~

~~(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.~~

~~(e) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (e)(1) through (3) of this section.~~

~~(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, "n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples," (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." Record the sampling date and time, oil content values, and sinter produced (tons/day).~~

~~(2) Continue the sampling and analysis procedure for 30 consecutive days.~~

~~(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.~~

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b). ~~and~~

(c) For each emission limitation that applies to you, you must submit a notification of compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, ~~if~~ **as** applicable, detailed descriptions of the ~~procedures you use for~~ corrective action **procedures** for baghouses **and or control devices;**

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel production cycle)

according to the requirements in §63.7832.

(b) ~~For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.~~

~~(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.~~

~~(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.~~

~~(3) Check the compressed air supply for pulse-jet baghouses each day.~~

~~(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.~~

~~(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.~~

~~(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.~~

~~(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.~~

~~(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.~~

(**b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.**

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through ~~(6)~~ **(8)**of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of

control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission

limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) ~~and~~ **or** (2) of this section **as applicable, and paragraphs (c)(3) and (4) of this section:**

~~(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.~~

~~(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.~~

(**1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.**

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was

completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by ~~completing~~ **meeting** the requirements of paragraphs (d)(1) through ~~(3)~~ **(4)** of this section:

~~(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;~~

~~(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and~~

~~(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.~~

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a **baghouse equipped with a** bag leak detection system ~~alarm~~ **or COMS** according to §63.7800(b)(4) and recording all information

needed to document conformance with these requirements**, including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.**

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* **Except as provided in §63.7833(g),**You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through

(8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation

occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You

should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom

of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture

and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
9. Each BOPF at a new or existing shop.	a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\ **,\3\; and** b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle for an existing BOPF shop **\2\, \3** or 0.01 gr/dscf during the steel production cycle for a new BOPF shop ~~\2\~~; **\3** and c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitoring at an existing BOPF shop.	You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).

~~\1\ This limit applies if the cooler is vented to the same control device as the discharge end.~~

~~\2\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.~~
\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.
\3\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop; b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. The average concentration of particulate matter from a control device applied solely to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop	The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a

	new BOPF shop.
12. Each roof monitor at an existing BOPF shop.	The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below 0.03 gr/dscf; **and** b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; **and** c. Maintaining emissions of particulate matter from a control device applied solely to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
11. Each ladle metallurgy operation at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
12. Each roof monitor at an existing BOPF	a. Maintaining the opacity of secondary

shop.	emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies ~~Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.~~ **methods and procedures for determining compliance with opacity emission and operating limits**
§63.6(i)	**Extension of Compliance with Emission Standards.**	**Yes.**	
§ 63.6(j).	**Exemption from compliance with Emission Standards**	**Yes.**	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.
§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-~~(a)(~~3), (b), (c)(1)-(3), (c)(4)(i)-~~(e)~~ **(ii)**, (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). ~~(ii),~~	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-**(ii), (c) (5)-(6),** (d), and (e) apply only to COMS ~~for electrostatic precipitators.~~

§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	**Data Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS ~~for electrostatic precipitators~~.
~~§ 63.9(g)(5).~~	~~DATA Reduction~~	~~No~~	~~Subpart FFFFF specifies data reduction requirements.~~
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS ~~for electrostatic precipitators~~.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	**Subpart FFFFF specifies reporting requirements**
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

D.9.17 National Emission Standards for Hazardous Air Pollutants (NESHAP) from Integrated Iron and Steel manufacturing – Basic Oxygen Process Furnaces (BOPF) [40 CFR 63, Subpart FFFFF]

Title 40: Protection of Environment
PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart FFFFF—National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities

Source: 68 FR 27663, May 20, 2003, unless otherwise noted.

What This Subpart Covers

§ 63.7780 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for integrated iron and steel manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with all applicable emission limitations and operation and maintenance requirements in this subpart.

§ 63.7781 Am I subject to this subpart?

You are subject to this subpart if you own or operate an integrated iron and steel manufacturing facility that is (or is part of) a major source of hazardous air pollutants (HAP) emissions. Your integrated iron and steel manufacturing facility is a major source of HAP if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

§ 63.7782 What parts of my plant does this subpart cover?

(a) This subpart applies to each new and existing affected source at your integrated iron and steel manufacturing facility.

(b) The affected sources are each new or existing basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.

(c) This subpart covers emissions from the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).

(d) A BOPF shop at your integrated iron and steel manufacturing facility is existing if you commenced construction or reconstruction of the affected source before July 13, 2001.

(e) A BOPF shop at your integrated iron and steel manufacturing facility is new if you commence construction or reconstruction of the affected source on or after July 13, 2001. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§ 63.7783 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation and operation and maintenance requirement in this subpart that applies to you ~~no later than May 22, 2006~~ **by the dates specified in paragraphs (a)(1) and (2) of this section.**

(1) No later than May 22, 2006 for all emission sources at an existing affected source except for a sinter cooler at an existing sinter plant.

(d) If your integrated iron and steel manufacturing facility is not a major source and

becomes a major source of HAP, the following compliance dates apply to you.

(1) Any portion of the existing integrated iron and steel manufacturing facility that becomes a new affected source or a new reconstructed source must be in compliance with this subpart upon startup.

(2) All other parts of the integrated iron and steel manufacturing facility must be in compliance with this subpart no later than 2 years after it becomes a major source.

(e) You must meet the notification and schedule requirements in §63.7840. Several of these notifications must be submitted before the compliance date for your affected source.

Emission Limitations

§ 63.7790 What emission limitations must I meet?

(a) You must meet each emission limit and opacity limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit for capture systems and control devices in paragraphs (b)(1) through (3) of this section that applies to you.

(1) You must operate each capture system applied to secondary emissions from a BOPF at or above the lowest value or settings established for the operating limits in your operation and maintenance plan;

(2) For each venturi scrubber applied to meet any particulate emission limit in Table 1 to this subpart, you must maintain the hourly average pressure drop and scrubber water flow rate at or above the minimum levels established during the initial performance test.

(3) For each electrostatic precipitator applied to emissions from a BOPF, you must maintain the **hourly** average opacity of emissions ~~for each 6-minute period at or below the site-specific opacity value corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values established during the initial performance test~~ **exiting the control device at or below 10 percent.**

(c) An owner or operator who uses an air pollution control device other than a baghouse, venturi scrubber, or electrostatic precipitator must submit a description of the device; test results collected in accordance with §63.7822 verifying the performance of the device for reducing emissions of particulate matter to the atmosphere to the levels required by this subpart; a copy of the operation and maintenance plan required in §63.7800(b); and appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emission limitation(s). The monitoring plan identifying the operating parameters to be monitored is subject to approval by the Administrator.

Operation and Maintenance Requirements

§ 63.7800 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture system or control device subject to an operating limit in §63.7790(b). Each plan must address the elements in paragraphs (b)(1) through (5) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*e.g.,* pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.,* presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan also must include requirements to repair any defect or deficiency in the capture system before the next scheduled inspection.

(2) Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(3) Operating limits for each capture system applied to secondary emissions from a BOPF. You must establish the operating limits according to the requirements in paragraphs (b)(3)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and the damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to, volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure.

(ii) For each operating limit parameter selected in paragraph (b)(3)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate.

(iii) Include documentation in your plan to support your selection of the operating limits established for the capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7830(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(4) Corrective action procedures for bag leak detection systems. In the event a bag leak

detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe, or otherwise repair the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions; and

~~(5) Procedures for determining and recording the daily sinter plant production rate in tons per hour.~~

(5) Corrective actions procedures for venture scrubbers equipped with continuous parametric monitoring systems (CPMS) . In the event a venture scrubber exceeds the operating limit in §63.7790(b)(2), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

(6) Corrective action procedures for electrostatic precipitators equipped with COMS. In the event an electrostatic precipitator exceeds the operating limit in §63.7790(b)(3), you must take corrective actions consistent with your site-specific monitoring plan in accordance with §63.7831(a).

General Compliance Requirements

§ 63.7810 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.

(b) During the period between the compliance date specified for your affected source in §63.7783 and the date upon which continuous monitoring systems have been installed and certified and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7820 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) You must conduct a performance test to demonstrate initial compliance with each emission and opacity limit in Table 1 to this subpart that applies to you. You must conduct the performance tests within 180 calendar days after the compliance date that is specified in §63.7783 for your affected source and report the results in your notification of compliance status.

(b) For each operation and maintenance requirement that applies to you where initial compliance is not demonstrated using a performance test or opacity observation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified for your affected source in §63.7783.

§ 63.7821 When must I conduct subsequent performance tests?

You must conduct subsequent performance tests to demonstrate compliance with all applicable PM and opacity limits in Table 1 to this subpart ~~no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit. For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.~~ **at the frequencies specified in paragraphs (b) through (d) of this section.**

(b) For each sinter cooler at an existing sinter plant and each emissions unit equipped with a control device other than a baghouse, you must conduct subsequent performance tests no less frequently than twice (at mid-term and renewal) during each term of your title V operating permit.

(c) For each emissions unit equipped with a baghouse, you must conduct subsequent performance tests no less frequently than once during each term of your title V operating permit.

(d) For sources without a title V operating permit, you must conduct subsequent performance tests every 2.5 years.

§ 63.7822 What test methods and other procedures must I use to demonstrate initial compliance with the emission limits for particulate matter?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(e)(1) and the conditions detailed in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emission limit for particulate matter in Table 1 to this subpart, follow the test methods and procedures in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of particulate matter according to the following test methods in appendix A to part 60 of this chapter:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5D, or 17, as applicable, to determine the concentration of particulate matter (front half filterable catch only).

(2) Collect a minimum sample volume of 60 dry standard cubic feet (dscf) of gas during each particulate matter test run. Three valid test runs are needed to comprise a performance test.

(d) If you apply two or more control devices in parallel to emissions from a BOPF, compute the average flow-weighted concentration for each test run using Equation 2 of this section as follows:

$$C_W = \frac{\sum_{i=1}^{n} C_i Q_i}{\sum_{i=1}^{n} Q_i} \qquad \text{(Eq. 2)}$$

Where:

C_w = Flow-weighted concentration, gr/dscf;

C_i = Concentration of particulate matter from exhaust stream “i”, gr/dscf; and

Q_i = Volumetric flow rate of effluent gas from exhaust stream “i”, dry standard cubic foot per minute (dscfm).

(f) For a primary emission control device applied to emissions from a BOPF with a closed hood system, sample only during the primary oxygen blow and do not sample during any subsequent reblows. Continue sampling for each run for an integral number of primary oxygen blows.

(g) For a primary emission control system applied to emissions from a BOPF with an open hood system and for a control device applied solely to secondary emissions from a BOPF, you must complete the requirements of paragraphs (g)(1) and (2) of this section:

(1) Sample only during the steel production cycle. Conduct sampling under conditions that are representative of normal operation. Record the start and end time of each steel production cycle and each period of abnormal operation; and

(2) Sample for an integral number of steel production cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(h) For a control device applied to emissions from BOPF shop ancillary operations (hot metal transfer, skimming, desulfurization, or ladle metallurgy), sample only when the operation(s) is being conducted.

(i) Subject to approval by the permitting authority, you may conduct representative sampling of stacks when there are more than three stacks associated with a process.

§ 63.7823 What test methods and other procedures must I use to demonstrate initial compliance with the opacity limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in §63.7(h)(5) and the conditions detailed in paragraphs (b) through (d) of this section.

(b) You must conduct each visible emissions performance test such that the opacity observations overlap with the performance test for particulate matter.

(d) To determine compliance with the applicable opacity limit in Table 1 to this subpart for BOPF shops:

(1) For an existing BOPF shop:

(i) Using a certified observer, determine the opacity of emissions according to Method 9 in appendix A to part 60 of this chapter except as specified in paragraphs (d)(1)(ii) and (iii) of this section.

(ii) Instead of procedures in section 2.4 of Method 9 in appendix A to part 60 of this chapter, record observations to the nearest 5 percent at 15-second intervals for at least three steel production cycles.

(iii) Instead of procedures in section 2.5 of Method 9 in appendix A to part 60 of this chapter, determine the 3-minute block average opacity from the average of 12 consecutive observations recorded at 15-second intervals.

(4) Opacity observations must cover the entire steel production cycle and must be made for at least three cycles. The steel production cycle begins when the scrap is charged to the furnace and ends 3 minutes after the slag is emptied from the vessel into the slag pot.

(5) Determine and record the starting and stopping times of the steel production cycle.

§ 63.7824 What test methods and other procedures must I use to establish and

demonstrate initial compliance with operating limits?

(a) For each capture system subject to an operating limit in §63.7790(b)(1), you must certify that the system operated during the performance test at the site-specific operating limits established in your operation and maintenance plan using the procedures in paragraphs (a)(1) through (4) of this section.

(1) Concurrent with all opacity observations, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements specified in §63.7830(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each opacity observation period segment.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(4) Certify in your performance test report that during all observation period segments, the capture system was operating at the values or settings established in your capture system operation and maintenance plan.

(b) For a venturi scrubber subject to operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section. **You may establish the parametric monitoring limit during the initial performance test or during any other performance test run that meets the emission limit.**

(1) Using the ~~continuous parameter monitoring system (~~CPMS~~)~~ required in §63.7830(c), measure and record the pressure drop and scrubber water flow rate during each run of the particulate matter performance test.

(2) Compute and record the hourly average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average pressure drop and scrubber water flow rate value in any of the three runs that meet the applicable emission limit.

~~(d)~~ **(c)** You may change the operating limits for a capture system **or** venturi scrubber, if you meet the requirements in paragraphs ~~(d)~~ **(c)** (1) through (3) of this section.

(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.

(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.

~~(d) You may change the operating limits for a capture system, venturi scrubber, or electrostatic precipitator if you meet the requirements in paragraphs (d)(1) through (3) of this section.~~

~~(1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.~~

~~(2) Conduct a performance test to demonstrate compliance with the applicable emission limitation in Table 1 to this subpart.~~

~~(3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (c) of this section for a control device or capture system.~~

~~(e) For each sinter plant subject to the operating limit for the oil content of the sinter plant feedstock in §63.7790(d)(1), you must demonstrate initial compliance according to the procedures in paragraphs (e)(1) through (3) of this section.~~

~~(1) Sample the feedstock at least three times a day (once every 8 hours), composite the three samples each day, and analyze the composited samples using Method 9071B, "n-Hexane Extractable Material(HEM) for Sludge, Sediment, and Solid Samples," (Revision 2, April 1998). Method 9071B is incorporated by reference (see §63.14) and is published in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." Record the sampling date and time, oil content values, and sinter produced (tons/day).~~

~~(2) Continue the sampling and analysis procedure for 30 consecutive days.~~

~~(3) Each day, compute and record the 30-day rolling average using that day's value and the 29 previous daily values.~~

§ 63.7825 How do I demonstrate initial compliance with the emission limitations that apply to me?

(a) For each affected source subject to an emission or opacity limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You meet the conditions in Table 2 to this subpart; and

(2) For each capture system subject to the operating limit in §63.7790(b)(1), you have established appropriate site-specific operating limit(s) and have a record of the operating parameter data measured during the performance test in accordance with §63.7824(a)(1).

(3) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7824(b). ~~and~~

(c) For each emission limitation that applies to you, you must submit a notification of

compliance status according to §63.7840(e).

§ 63.7826 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For a capture system applied to secondary emissions from a BOPF, you have demonstrated initial compliance if you meet all of the conditions in paragraphs (a)(1) through (4) of this section.

(1) Prepared the capture system operation and maintenance plan according to the requirements of §63.7800(b), including monthly inspection procedures and detailed descriptions of the operating parameter(s) selected to monitor the capture system;

(2) Certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan;

(3) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the capture system operation and maintenance plan and your certification that you will operate the capture system at the values or settings established for the operating limits in that plan; and

(4) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

(b) For each control device subject to operating limits in §63.7790(b)(2) or (3), you have demonstrated initial compliance if you meet all the conditions in paragraphs (b)(1) through (3) of this section.

(1) Prepared the control device operation and maintenance plan according to the requirements of §63.7800(b), including a preventative maintenance schedule and, ~~if~~ **as** applicable, detailed descriptions of the ~~procedures you use for~~ corrective action **procedures** for baghouses **and or control devices;**

(2) Submitted a notification of compliance status according to the requirements in §63.7840(e), including a copy of the operation and maintenance plan; and

(3) Prepared a site-specific monitoring plan according to the requirements in §63.7831(a).

Continuous Compliance Requirements

§ 63.7830 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7790(b)(1) established in your capture system operation and maintenance plan, you must install, operate, and maintain a CPMS according to the requirements in §63.7831(e) and the requirements in paragraphs (a)(1) through (3) of this section.

(1) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that

each damper for the capture system is in the same position as during the initial performance test.

(3) If you use a flow measurement device to monitor the operating limit parameter for a capture system applied to secondary emissions from a BOPF, you must monitor the average rate for each steel production cycle (*e.g.,* the average actual volumetric flow rate through each separately ducted hood for each steel production cycle, the average total volumetric flow rate at the inlet to the control device for each steel production cycle) according to the requirements in §63.7832.

(b) ~~For each baghouse applied to meet any particulate emission limit in Table 1 of this subpart, you must install, operate, and maintain a bag leak detection system according to §63.7831(f), monitor the relative change in particulate matter loadings according to the requirements in §63.7832, and conduct inspections at their specified frequencies according to the requirements in paragraphs (b)(1) through (8) of this section.~~

~~(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.~~

~~(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.~~

~~(3) Check the compressed air supply for pulse-jet baghouses each day.~~

~~(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.~~

~~(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.~~

~~(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.~~

~~(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.~~

~~(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.~~

(**b) Except as provided in paragraph (b)(3) of this section, you must meet the requirements in paragraph (b)(1) or (2) of this section for each baghouse applied to meet any particulate emission limit in Table 1 to this subpart. You must conduct inspections of each baghouse according to the requirements in paragraph (b)(4) of this section.**

(1) Install, operate, and maintain a bag leak detection system according to §63.7831(f) and monitor the relative change in particulate matter loadings according to the requirements in §63.7832; or

(2) If you do not install and operate a bag leak detection system, you must install, operate, and maintain a COMS according to the requirements in §63.7831(h) and monitor the hourly average opacity of emissions exiting each control device stack according to the requirements in §63.7832.

(3) A bag leak detection system and COMS are not required for a baghouse that meets the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) The baghouse is a positive pressure baghouse and is not equipped with exhaust gas stacks; and

(ii) The baghouse was installed before August 30, 2005.

(4) You must conduct inspections of each baghouse at the specified frequencies according to the requirements in paragraphs (b)(4)(i) through (viii) of this section.

(i) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(ii) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(iii) Check the compressed air supply for pulse-jet baghouses each day.

(iv) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(v) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.

(vi) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(vii) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(viii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(c) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must install, operate, and maintain CPMS according to the requirements in §63.7831(g) and monitor the hourly average pressure drop and water flow rate according to the requirements in §63.7832.

§ 63.7831 What are the installation, operation, and maintenance requirements for my

monitors?

(a) For each CPMS required in §63.7830, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in paragraphs (a)(1) through ~~(6)~~ **(8)**of this section.

(1) Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.,* on or downstream of the last control device);

(2) Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;

(3) Performance evaluation procedures and acceptance criteria (*e.g.,* calibrations);

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of §§63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(5) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(6) Ongoing recordkeeping and reporting procedures in accordance the general requirements of §§63.10(c), (e)(1), and (e)(2)(i).

(7) Corrective action procedures you will follow in the event a venturi scrubber exceeds the operating limit in §63.7790(b)(2); and

(b) Unless otherwise specified, each CPMS must:

(1) Complete a minimum of one cycle of operation for each successive 15-minute period and collect a minimum of three of the required four data points to constitute a valid hour of data;

(2) Provide valid hourly data for at least 95 percent of every averaging period; and

(3) Determine and record the hourly average of all recorded readings.

(c) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(d) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

(e) For each capture system subject to an operating limit in §63.7790(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

(f) For each baghouse applied to meet any particulate emission limit in Table 1 of this

subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (f)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The system must provide output of relative changes in particulate matter loadings.

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel.

(4) Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, “Fabric Filter Bag Leak Detection Guidance,” EPA–454/R–98–015, September 1997. You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations.

(5) To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time.

(6) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(g) For each venturi scrubber subject to operating limits in §63.7790(b)(2) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a) through (d) of this section.

§ 63.7832 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, out-of-control periods as specified in §63.8(c)(7), associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times an affected source is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing

compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7833 How do I demonstrate continuous compliance with the emission limitations that apply to me?

(a) You must demonstrate continuous compliance for each affected source subject to an emission or opacity limit in §63.7790(a) by meeting the requirements in Table 3 to this subpart.

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7790(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operate the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitor the capture system according to the requirements in §63.7830(a) and collect, reduce, and record the monitoring data for each of the operating limit parameters according to the applicable requirements of this subpart;

(c) For each baghouse applied to meet any particulate emission limit in Table 1 to this subpart, you must demonstrate continuous compliance by completing the requirements in paragraphs (c)(1) ~~and~~ **or** (2) of this section **as applicable, and paragraphs (c)(3) and (4) of this section:**

~~(1) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm, the corrective action(s) taken, and the date on which corrective action was completed.~~

~~(2) Inspecting and maintaining each baghouse according to the requirements in §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.~~

(**1) For a baghouse equipped with a bag leak detection system, operating and maintaining each bag leak detection system according to §63.7831(f) and recording all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in §63.7831(f)(6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.**

(2) For a baghouse equipped with a COMS, operating and maintaining each COMS and reducing the COMS data according to §63.7831(h).

(3) Inspecting each baghouse according to the requirements in §63.7830(b)(4) and maintaining all records needed to document conformance with these requirements.

(4) Maintaining records of the time you initiated corrective action in the event of a bag leak detection system alarm or when the hourly average opacity exceeded 5 percent, the corrective action(s) taken, and the date on which corrective action was completed.

(d) For each venturi scrubber subject to the operating limits for pressure drop and scrubber water flow rate in §63.7790(b)(2), you must demonstrate continuous compliance by ~~completing~~ **meeting** the requirements of paragraphs (d)(1) through ~~(3)~~ **(4)** of this section:

~~(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;~~

~~(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and~~

~~(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.~~

(1) Maintaining the hourly average pressure drop and scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Operating and maintaining each venturi scrubber CPMS according to §63.7831(g) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to §63.7831(b) and recording all information needed to document conformance with these requirements.

(4) If the hourly average pressure drop or scrubber water flow rate is below the operating limits, you must follow the corrective action procedures in paragraph (g) of this section.

§ 63.7834 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device subject to an operating limit in §63.7790(b), you must demonstrate continuous compliance with the operation and maintenance requirements in §63.7800(b) by meeting the requirements of paragraphs (a)(1) through ~~(3)~~ **(4)** of this section:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7800(b)(1) and recording all information needed to document conformance with

these requirements;

(2) Performing preventative maintenance according to §63.7800(b)(2) and recording all information needed to document conformance with these requirements; and

(3) Initiating and completing corrective action for a **baghouse equipped with a** bag leak detection system ~~alarm~~ **or COMS** according to §63.7800(b)(4) and recording all information needed to document conformance with these requirements**, including the time you initiated corrective action, the corrective action(s) taken, and date on which corrective action was completed.**

(4) Initiating and completing corrective action for a venturi scrubber equipped with a CPMS or an electrostatic precipitator equipped with a COMS according to §63.7833(g) and recording all information needed to document conformance with these requirements, including the time you initiated corrective action, the corrective action(s) taken within the first 24 hours according to §63.7833(g)(1) and whether they were successful, the corrective action(s) taken within the second 24 hours according to §63.7833(g)(2) and whether they were successful, and the date on which corrective action was completed.

(b) You must maintain a current copy of the operation and maintenance plan required in §63.7800(b) onsite and available for inspection upon request. You must keep the plans for the life of the affected source or until the affected source is no longer subject to the requirements of this subpart.

§ 63.7835 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* **Except as provided in §63.7833(g),**You must report each instance in which you did not meet each emission limitation in §63.7790 that applies to you. This includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each operation and maintenance requirement in §63.7800 that applies to you. These instances are deviations from the emission limitations and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements in §63.7841.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

[68 FR 27663, May 20, 2003, as amended at 71 FR 20468, Apr. 20, 2006]

Notifications, Reports, and Records

§ 63.7840 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you startup your affected source before May 20, 2003, you must submit your initial notification no later than September 17, 2003.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, opacity observation, or other initial compliance demonstration, you must submit a notification of compliance status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7841 What reports must I submit and when?

(a) *Compliance report due dates.* Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7783 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your source in §63.7783.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting

semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (a)(1) through (4) of this section.

(b) *Compliance report contents.* Each compliance report must include the information in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from the continuous compliance requirements in §§63.7833 and 63.7834 that apply to you, a statement that there were no deviations from the emission limitations or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS, COMS, or continuous emission monitoring system (CEMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emission limitation in §63.7790 that occurs at an affected source where you are not using a continuous monitoring system (including a CPMS, COMS, or CEMS) to comply with an emission limitation in this subpart, the compliance report must contain the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(7)(i) and (ii) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The total operating time of each affected source during the reporting period.

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

(8) For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including a CPMS or COMS) to comply with the emission limitation in this subpart, you must include the information in paragraphs (b)(1) through (4) of this section and the information in paragraphs (b)(8)(i) through (xi) of this section. This includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control as specified in §63.8(c)(7), including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period including those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) *Immediate startup, shutdown, and malfunction report.* If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).

(d) *Part 70 monitoring report.* If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

§ 63.7842 What records must I keep?

(a) You must keep the following records:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each COMS, you must keep the records specified in paragraphs (b)(1) through (4) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Monitoring data for a performance evaluation as required in §63.6(h)(7)(i) and (ii).

(3) Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in §63.6(h)(6) for visual observations.

(d) You must keep the records required in §§63.7833 and 63.7834 to show continuous compliance with each emission limitation and operation and maintenance requirement that applies to you.

§ 63.7843 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.

Other Requirements and Information

§ 63.7850 What parts of the General Provisions apply to me?

Table 4 to this subpart shows which parts of the General Provisions in §§63.1 through

63.15 apply to you.

§ 63.7851 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the United States Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternative opacity emission limits in Table 1 to this subpart under §63.6(h)(9).

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.7852 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on tribroelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Basic oxygen process furnace means any refractory-lined vessel in which high-purity oxygen is blown under pressure through a bath of molten iron, scrap metal, and fluxes to produce steel. This definition includes both top and bottom blown furnaces, but does not include argon oxygen decarburization furnaces.

Basic oxygen process furnace shop means the place where steelmaking operations that begin with the transfer of molten iron (hot metal) from the torpedo car and end prior to casting the molten steel, including hot metal transfer, desulfurization, slag skimming, refining in a basic oxygen process furnace, and ladle metallurgy occur.

Basic oxygen process furnace shop ancillary operations means the processes where hot

metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy occur.

Blast furnace means a furnace used for the production of molten iron from iron ore and other iron bearing materials.

Bottom-blown furnace means any basic oxygen process furnace in which oxygen and other combustion gases are introduced into the bath of molten iron through tuyeres in the bottom of the vessel or through tuyeres in the bottom and sides of the vessel.

Casthouse means the building or structure that encloses the bottom portion of a blast furnace where the hot metal and slag are tapped from the furnace.

Certified observer means a visible emission observer certified to perform EPA Method 9 opacity observations.

Desulfurization means the process in which reagents such as magnesium, soda ash, and lime are injected into the hot metal, usually with dry air or nitrogen, to remove sulfur.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including operating limits) or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Discharge end means the place where those operations conducted within the sinter plant starting at the discharge of the sintering machine's traveling grate including (but not limited to) hot sinter crushing, screening, and transfer operations occur.

Emission limitation means any emission limit, opacity limit, or operating limit.

Hot metal transfer station means the location in a basic oxygen process furnace shop where molten iron (hot metal) is transferred from a torpedo car or hot metal car used to transport hot metal from the blast furnace casthouse to a holding vessel or ladle in the basic oxygen process furnace shop. This location also is known as the reladling station or ladle transfer station.

Integrated iron and steel manufacturing facility means an establishment engaged in the production of steel from iron ore.

Ladle metallurgy means a secondary steelmaking process that is performed typically in a ladle after initial refining in a basic oxygen process furnace to adjust or amend the chemical

and/or mechanical properties of steel.

Primary emissions means particulate matter emissions from the basic oxygen process furnace generated during the steel production cycle which are captured and treated in the furnace's primary emission control system.

Primary emission control system means the combination of equipment used for the capture and collection of primary emissions (*e.g.,* an open hood capture system used in conjunction with an electrostatic precipitator or a closed hood system used in conjunction with a scrubber).

Primary oxygen blow means the period in the steel production cycle of a basic oxygen process furnace during which oxygen is blown through the molten iron bath by means of a lance inserted from the top of the vessel (top-blown) or through tuyeres in the bottom and/or sides of the vessel (bottom-blown).

Responsible official means responsible official as defined in §63.2.

Secondary emissions means particulate matter emissions that are not controlled by a primary emission control system, including emissions that escape from open and closed hoods, lance hole openings, and gaps or tears in ductwork to the primary emission control system.

Secondary emission control system means the combination of equipment used for the capture and collection of secondary emissions from a basic oxygen process furnace.

Sinter cooler means the apparatus used to cool the hot sinter product that is transferred from the discharge end through contact with large volumes of induced or forced draft air.

Sinter plant means the machine used to produce a fused clinker-like aggregate or sinter of fine iron-bearing materials suited for use in a blast furnace. The machine is composed of a continuous traveling grate that conveys a bed of ore fines and other finely divided iron-bearing material and fuel (typically coke breeze), a burner at the feed end of the grate for ignition, and a series of downdraft windboxes along the length of the strand to support downdraft combustion and heat sufficient to produce a fused sinter product.

Skimming station means the locations inside a basic oxygen process furnace shop where slag is removed from the top of the molten metal bath.

Steel production cycle means the operations conducted within the basic oxygen process furnace shop that are required to produce each batch of steel. The following operations are included: scrap charging, preheating (when done), hot metal charging, primary oxygen blowing, sampling, (vessel turndown and turnup), additional oxygen blowing (when done), tapping, and deslagging. The steel production cycle begins when the scrap is charged to the furnace and ends after the slag is emptied from the vessel into the slag pot.

Top-blown furnace means any basic oxygen process furnace in which oxygen is introduced into the bath of molten iron by means of an oxygen lance inserted from the top of the

vessel.

Windboxes means the compartments that provide for a controlled distribution of downdraft combustion air as it is drawn through the sinter bed of a sinter plant to make the fused sinter product.

Table 1 to Subpart FFFFF of Part 63—Emission and Opacity Limits

As required in §63.7790(a), you must comply with each applicable emission and opacity limit in the following table:

For .	You must comply with each of the following
9. Each BOPF at a new or existing shop.	a. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with a closed hood system at a new or existing BOPF shop that contain, on a flow-weighted basis, particulate matter in excess of 0.03 gr/dscf during the primary oxygen blow \2\ **,\3\; and** b. You must not cause to be discharged to the atmosphere any gases that exit from a primary emission control system for a BOPF with an open hood system that contain, on a flow-weighted basis, particulate matter in excess of 0.02 gr/dscf during the steel production cycle for an existing BOPF shop **\2\, \3** or 0.01 gr/dscf during the steel production cycle for a new BOPF shop ~~\2\~~; **\3** and c. You must not cause to be discharged to the atmosphere any gases that exit from a control device used solely for the collection of secondary emissions from the BOPF that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop.	You must not cause to be discharged to the atmosphere any gases that exit from a control device that contain particulate matter in excess of 0.01 gr/dscf for an existing BOPF shop **\2** or 0.004 gr/dscf for

	a new BOPF shop.
12. Each roof monitoring at an existing BOPF shop.	You must not cause to be discharged to the atmosphere any secondary emissions that exit any opening in the BOPF shop or any other building housing the BOPF or BOPF shop operation that exhibit opacity greater than 20 percent (3-minute average).

~~\1\ This limit applies if the cooler is vented to the same control device as the discharge end.~~
~~\2\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.~~
\2\ This concentration limit (gr/dscf) for a control device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside a casthouse at an existing blast furnace, or inside an existing BOPF shop if the control device was installed before August 30, 2005.
\3\ This limit applies to control devices operated in parallel for a single BOPF during the oxygen blow.

Table 2 to Subpart FFFFF of Part 63—Initial Compliance with Emission and Opacity Limits

As required in §63.7825(a)(1), you must demonstrate initial compliance with the emission and opacity limits according to the following table:

For	You have demonstrated initial compliance if
9. Each BOPF at a new or existing BOPF shop..	a. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with a closed hood system, measured according to the performance test procedures in §63.7822(f), did not exceed 0.03 gr/dscf for a new or existing BOPF shop; b. The average concentration of particulate matter from a primary emission control system applied to emissions from a BOPF with an open hood system, measured according to the performance test procedures in §63.7822(g), did not exceed 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; and c. The average concentration of particulate matter from a control device applied solely to secondary emissions from a BOPF, measured according to the performance test procedures in § 63.7822(g), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop.
10. Each hot metal transfer skimming, and desulfurization at a new or existing BOPF shop.	The average concentration of particulate matter from a control device applied to emissions from hot metal transfer, skimming, or desulfurization, measured according to the performance test procedures in § 63.7822(h), did not exceed

	0.01 gr/dscf for an existing BOPF shop or 0.003 gr/dscf for a new BOPF shop.
11. Each ladle metallurgy operation at a new or existing BOPF shop	The average concentration of particulate matter from a control device applied to emissions from a ladle metallurgy operation, measured according to the performance test procedures in § 63.7822(h), did not exceed 0.01 gr/dscf for an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop.
12. Each roof monitor at an existing BOPF shop.	The opacity of secondary emissions from each BOPF shop, determined according to the performance test procedures in § 63.7823(did not exceed 20 percent (3-minute average).

Table 3 to Subpart FFFFF of Part 63—Continuous Compliance with Emission and Opacity Limits

As required in §63.7833(a), you must demonstrate continuous compliance with the emission and opacity limits according to the following table:

For .	You must demonstrate continuous compliance by
9. Each BOPF at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with a closed hood system at or below 0.03 gr/dscf; **and** b. Maintaining emissions of particulate matter from the primary emission control system for a BOPF with an open hood system at or below 0.02 gr/dscf for an existing BOPF shop or 0.01 gr/dscf for a new BOPF shop; **and** c. Maintaining emissions of particulate matter from a control device applied solely to secondary emissions from a BOPF at or below 0.01 gr/dscf for an existing BOPF shop or 0.0052 gr/dscf for a new BOPF shop; and d. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
10. Each hot metal transfer, skimming, and desulfurization operation at a new or existing BOPF shop.	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
11. Each ladle metallurgy operation at a new or existing BOPF shop	a. Maintaining emissions of particulate matter from a control device at or below 0.01 gr/dscf

	at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**
12. Each roof monitor at an existing BOPF shop.	a. Maintaining the opacity of secondary emissions that exit any opening in the BOPF shop or other building housing the BOPF or shop operation at or below 20 percent (3-minute average); and b. Conducting subsequent performance tests at ~~least twice during each term of your title V operating permit (at midterm and renewal).~~ **the frequencies specified in § 63.7821.**

Table 4 to Subpart FFFFF of Part 63—Applicability of General Provisions to Subpart FFFFF

As required in §63.7850, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table:

Citation	Subject	Applies to Subpart FFFFF	Explanation
§ 63.1	Applicability.	Yes.	
§ 63.2	Definitions	Yes.	
§ 63.3.	Units and Abbreviations	Yes	
§ 63.4	Prohibited Activities	Yes.	
§ 63.5	Construction/Reconstruction	Yes.	
§ 63.6(a), (b), (c), (d), (e) (f), (g), (h)(2)(ii)-(h)(9)	Compliance with Standards and Maintenance Requirements.	Yes.	
§ 63.6(h)(2)(i).	Determining Compliance with Opacity and VE Standards	No.	Subpart FFFFF specifies ~~Method 9 in appendix A to part 60 of this chapter to comply with roof monitor opacity limits.~~ **methods and procedures for determining compliance with opacity emission and operating limits**
§63.6(i)	**Extension of Compliance with Emission Standards.**	**Yes.**	
§ 63.6(j).	**Exemption from compliance with Emission Standards**	**Yes.**	
§ 63.7(a)(1)-(2)	Applicability and Performance Test Dates	No	Subpart FFFFF and specifies performance test applicability and dates.

§ 63.7(a)(3), (b), (c)-(h).	Performance Testing Requirements.	Yes	
§ 63.8(a)(1)-~~(a)~~(3), (b), (c)(1)-(3), (c)(4)(i)-(~~e~~) **(ii)**, (c)(5) and (6), (c)(7)- (8), (f)(1)-(5), (g)(1)-(4). ~~(ii),~~	Monitoring Requirements	Yes	CMS requirements in § 63.8(c)(4) (i)-**(ii), (c) (5)-(6),** (d), and (e) apply only to COMS ~~for electrostatic precipitators.~~
§ 63.8(a)(4).	Additional Monitoring Requirements for Control Devices in § 63.11.	No	Subpart FFFFF does not require flares.
§ 63.8(c)(4)	Continuous Monitoring System Requirements.	No.	Subpart FFFFF specifies requirements for operation of CMS.
§ 63.8(f)(6).	RATA Alternative	No.	
63.8(g)(5)	**Data Reduction**	**No**	**Subpart FFFFF specifies data reduction requirements.**
§ 63.9	Notification Requirements.	Yes.	Additional notifications for CMS in § 63.9(g) apply to COMS ~~for electrostatic precipitators~~.
~~§ 63.9(g)(5).~~	~~DATA Reduction~~	~~No~~	~~Subpart FFFFF specifies data reduction requirements.~~
§ 63.10(a), (b)(1)-(2)(xii), (b)(2)(xiv), (b)(3), (c)(1)-(6) (c)(9)-(15), (d), (e)(1)-(2), (e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in § 63.10(c)(1)-(6), (9)-(15), and reports in §63.10(d)(1)-(2) apply only to COMS ~~for electrostatic precipitators~~.
§ 63.10(b)(2)(xiii)	CMS Records for RATA Alternative	No.	
§ 63.10(c)(7)-(8)	Records of Excess Emissions and Parameter Monitoring Exceedances for CMS	No.	Subpart FFFFF specifies record requirements.
§ 63.10(e)(3)	Excess Emission Reports	No	**Subpart FFFFF specifies reporting requirements**
§ 63.11	Control Device Requirements.	No	Subpart FFFFF does not require flares.
§ 63.12.	State Authority and Delegations	Yes	
§ 63.13-§ 63.15	Addresses, Incorporation by Reference, Availability of Information.	Yes	

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: US Steel - Gary Works
Source Location: One North Broadway, Gary, Indiana 46402
County: Lake
SIC Code: 3312
Operation Permit No.: T089-7663-00121
Permit Reviewer: Gail McGarrity

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from U. S. Steel - Gary Works relating to the operation of *an* integrated steel mill.

Source Definition

US Steel Gary Works is an integrated steel mill that consists of a main mill and ten (10) on-site contractors*:*

(a) U. S. Steel - Gary Works, plant Id 089-00121, the primary operation, located at One North Broadway, Gary, Indiana 46402;

(b) Brandenburg Industrial Service Company, plant Id 089-00176, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(c) Central Teaming Company, plant Id 089-00172, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(d) Gary Coal Processing, LP plant Id 089-00169, a supporting operation, located at One North Broadway, Gary, Indiana 46402; and

(e) Heckett Multiserv, plant Id 089-00170, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(f) Heritage Slag Products, LLC., plant Id 089-05210, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(g) International Mill Service, Inc. plant Id 089-00132, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(h) Koppers, Inc., plant Id 089- 00180, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(i) Levy-Indiana Slag Company, plant Id 089-00133, a supporting operation, located at One North Buchanan Street, Gary, Indiana 46401;

(j) Mid-Continent Coal and Coke Company, plant Id 089-00173, a supporting operation, located at One North Broadway, Gary, Indiana 46402;

(k) Tube City, Inc., plant Id 089-00174, a supporting operation, is located at One North Broadway, Gary, Indiana 46401.

IDEM has determined that U.S. Steel – Gary Works and each of the on-site contractors are under the common control of U.S. Steel - Gary Works. These plants are considered one source due to contractual control. Therefore, the term Asource@ in the Part 70 documents refers to both U.S. Steel- Gary Works and the on-site contractors as one source.

Separate Part 70 permits will be issued to US Steel - Gary Works and each on site contractor, solely for administrative purposes.

Company Name	Part 70 Permit Number
U.S. Steel - Gary Works	089-7663-00121
Brandenburg Industrial Service Company	089-8013-00176
Central Teaming Company, Inc.	089-7684-00172
Gary Coal Processing, LP	089-7171-000169
Heckett Multiserv,	089-7649-00170
Heritage Slag Products, LLC,	089-12280-05210
International Mill Service, Inc.	089-5630-00132
Koppers, Inc.	089-13872-00180
Levy-Indiana Slag Company	089-7719-00133
Mid-Continent Coal and Coke Company	089-8064-0073
Tube City, Inc.	089-7648-00174

Permitted Emission Units and Pollution Control Equipment

The integrated steel mill, US Steel-Gary Works consists of the following:

Coal Handling Operation

(a) One (1) coal car bottom thaw shed, identified as CHY00071, constructed in 1959, combusting coke oven gas, with a maximum heat input capacity of 25 MMBtu per hour, with an open flame heater, exhausting uncontrolled fugitive emissions.

(b) One (1) coal car side thaw station, identified as CHT0001, constructed in 1959, combusting natural gas, with a maximum heat input capacity of 15 MMBtu per hour, with an open flame heater, exhausting uncontrolled fugitive emissions.

(c) One (1) No. 2 Coke Battery Precarbonization facility, consisting of three (3) lines, Line A, Line B and Line C identified as CH2A0020, CH2B0021 and CH2C0022, constructed prior to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, identified as CH3029, CH3030 and CH3031, exhausting through stacks CH6034, CH6035 and CH6037, respectively.

(d) One (1) No. 3 Coke Battery Precarbonization facility consisting of three (3) lines Line A, Line B and Line C identified as CH3A0017, CH3B0018 and CH3C0019, constructed prior

to October 24, 1974, each with a maximum capacity of 153.5 tons per hour. Particulate matter emissions from the three lines are controlled by electrostatic precipitators (ESP), ESP A, ESP B and ESP C, CH3026, CH3027and CH3028, exhausting through stacks CH6028, CH6029 and CH6031, respectively.

(e) One (1) coal crushers: HiVol (3) hammer mills with a maximum capacity of 160 tons per hour, LoVol (3) hammer mills with a maximum capacity of 150 tons per hour, and MidVol (2) hammer mills with a maximum capacity of 100 tons per hour, that exhausts into the totally enclosed coal blending building.

(f) One (1) crusher, modified in 1999, to be used as a second coal crusher, with a maximum capacity of 1,200 tons per hour when used as a coal crusher. Emissions exhaust to the totally enclosed coal blending building. This operation is a totally enclosed hammer mill.

(g) Coal Handling Storage Facilities, identified as emission unit CHSQ0003.

Coke Batteries Operations

(a) No. 2 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No. 2 Coke Battery, identified as CP2B0079, constructed in November 1973, with a maximum charging capacity of 217 tons per hour. Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3060, CP3061 and CP3062, exhausting to Bypass/Bleeder Flare Stacks CP6105, CP6106 and CP 6107.

(2) The No. 2 Coke Battery underfiring system has a maximum combustion heat input capacity of 198 MMBtu per hour, exhausting to stack CP6040 equipped with a continuous opacity monitor (COM).

(3) The No. 2 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 2-9121, identified as CP3034, exhausting to Stack CP6041.

(4) Nos. 2 and 3 Quench Towers identified as CP1Q0080 and CP2Q0081, constructed in 1975, with a maximum combined capacity of 322 tons of coke per hour, each equipped with a quench water header and baffle system with sprays. These towers service Nos. 2 and 3 Coke Batteries.

(5) The No. 2 Coke Battery fugitive emissions are generated from charging operations, off take piping, door leaks, lid leaks and collector main leaks.

(b) No. 3 Coke Battery

(1) One (1) six (6) meter tall vertical flue coke battery with 57 ovens, No.3 Coke Battery, identified as CP3B0086, constructed in November 1974, with a maximum charging capacity of 217 tons per hour., Excessive coke oven gas back pressure is controlled by three (3) flares lit with internal flare igniters CP3063, CP3064 and CP3065, exhausting to Bypass/Bleeder Flare stacks CP6108, CP6109 and CP 6110.

(2) The No. 3 Coke Battery underfiring system has a maximum combustion heat input capacity of 198 MMBtu per hour, exhausting to stack CP6045, equipped

with a continuous opacity monitor (COM).

(3) The No.3 Coke Battery has a maximum pushing capacity of 161 tons of coke per hour, with particulate emissions controlled by a Mobile Scrubber Car 3-9122, identified as CP3038, exhausting to stack CP6046.

(4) The No. 1 Quench Tower, identified as CP3Q0087, constructed in 1975, with a maximum capacity of 322 tons of coke per hour, equipped with a quench water header and baffle system with sprays. This tower services Nos. 2, 3, 5 and 7 Coke Batteries.

(5) The No. 3 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks.

(c) No. 5 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery with 77 ovens, No. 5 Coke Battery, identified as CP5B0090, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3066 and CP3067, exhausting to Bypass/Bleeder Flare stacks CP6111 and CP 6112.

(2) The No. 5 Coke Battery underfiring system has a maximum combustion heat input capacity of 115 MMBtu per hour, exhausting to stack CP6049, equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 5 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lid leaks and collector main leaks.

(d) No. 7 Coke Battery

(1) One (1) three (3) meter short vertical flue coke oven battery, with 77 ovens, No.7 Coke Battery, identified as CP7B0094, constructed in 1954, with a maximum charging capacity of 84 tons per hour. Excessive coke oven gas back pressure is controlled by two (2) flares lit with internal flare igniters CP3068 and CP3069, exhausting to Bypass/Bleeder Flare stacks CP6113 and CP6114.

(2) The No. 7 Coke Battery underfiring system has a maximum combustion heat input capacity of 115 MMBtu per hour, exhausting to stack CP6053 equipped with a COM.

(3) The No. 5 and No.7 Coke Batteries have a combined maximum pushing capacity of 103 tons of coke per hour, with particulate emissions controlled by a common baghouse, identified as CP3041, exhausting to stack CP6050.

(4) Nos. 5 and 6 Quench Towers identified as CP5Q0091 and CP5Q0095, constructed in 1954, with a maximum combined capacity of 103 tons of coke per hour, equipped with a quench water header and baffle system with sprays. These towers service Nos. 5 and 7 Coke Batteries.

(5) The No. 7 Coke Battery fugitive emissions are generated from charging operations, offtake piping, door leaks, lids leaks and collector main leaks.

(e) Natural Gas Underfiring Injection System Jets

Three (3) natural gas injection jets, identified as CPNGI001, CPNGI002 and CPNGI003, constructed in 2001, with heat input capacities of 22 MMBtu per hour, 43 MMBtu per hour and 122 MMBtu per hour, respectively. Natural gas injection provided Btu stabilization control, coke oven gas quality control and emergency gas supply to the battery unfiring system.

Coke By-Products Recovery Plant

(a) Recovery No. 1 Suction Control System

(1) Four (4) Predecanters D-101A, D-101B, D-101C and D-101D, identified as CBP10100, CBP20101, CBP30102 and CBP30103, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72- inch Suction Main.

(2) Two (2) Still Decanters D-102B and D-102A, identified as CBD00104 and CBD00105, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-5 and D-4, identified as CBD20107 and CBD30108, constructed in 1991, with VOC emission vapors directed by a natural gas blanket system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(4) One (1) Bleed-Off Tank, identified as CBB10106, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(5) One (1) Liquor Storage Tank T-7, identified as CBL10109, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(6) Two (2) Tar Storage Tanks T-2 and T-3, identified as CBT00110 and CBT00111, constructed in 1991, with VOC emission vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(7) One (1) Storage Tank T-6, identified as CBT20112, constructed in 1991, with VOC emission vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(8) Two (2) PC Tar Storage Tanks T-363D and T-363A, identified as CBT30113 and CB40114, constructed in 1991, with VOC emission vapors directed by a natural

gas blanketing system CB3080 to Control Station No.1 into the 72-inch Suction Main.

(9) One (1) Dry Tar Storage Tank T-9, identified as CBT50115, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(10) One (1) Sump S-9 serving Dry Tar Storage Tank ST-9, identified as CBS10116, constructed in 1991, with VOC emission vapors, directed by a natural gas blanketing system CB3080 to Control Station No.1 and into the 72-inch Suction Main.

(b) Recovery No. 2 Suction Control System

(1) Three (3) Tar Tanks T-304C, T-304B and T-304A , identified as CBT60118, CBT70119, and CBT80121, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(2) One (1) Tar Feed Tank T-306C, identified as CBTF0164, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3081 to Control Station No.2 and into the 72-inch Suction Main.

(3) One (1) Wash Oil Tank T-331AN, identified as CBO10123, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 into the 72-inch Suction Main.

(4) Two (2) Light Oil Storage Tanks T-312 and T-311, identified as CBO20124 and CBO30125, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(5) One (1) sump S-304/306, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3081 to Control Station No. 2 and into the 72-inch Suction Main.

(c) No. 3 Suction Control System

(1) Four (4) Predecanters D-105A, D-105B, D-105C and D-105D, identified as CBP70137, CBP80138, CBP50139 and CBP60140, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(2) Two (2) Still Decanters D-106A and D-106B, identified as CBD60134 and CBD70136, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(3) Two (2) Gary Decanters D-6 and D-7, identified as CBD40132 and CBD50133, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(4) Two (2) Tar Decanters D-5/7N and D-5/7S, identified as CBD80141 and

CBD90142, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(5) One (1) Bleed-Off Tank B-104, identified as CBB20135, constructed in 1991with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(6) One (1) Liquor Surge Tank T-11, identified as CBL60131, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3082 to Control Station No. 3 and into the 72-inch Suction Main.

(d) No. 4 Suction Control System

(1) Four (4) Circulating Liquor Decanters L-100B, L-100C, L-100D and L-100E, identified as CBC30127, CBC40128, CBC50129 and CBL80145, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(2) Two (2) Liquor Surge Tanks T-340A and T-340B, identified as CBC20126 and CBL70143, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(3) One (1) Primary Cooler Tank T-345A, identified as CBTF0130, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3083 to Control Station No. 4 and into the 72-inch Suction Main.

(e) No. 5 Suction Control System

(1) One (1) Sump of Circulating Liquor Ls-100E, identified as CBS40144, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(2) Three (3) Tar Storage Tanks T-301,T-302A, T-302B, identified as CBTA0146, CBTB0147 and CBTC0148, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(3) Two (2) Storage Tanks T-7100, T7110 and T-7120, constructed in 1991, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(4) Two (2) Oil Tar Separator Tanks, T-7000 and T-7010, constructed in 1999, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(5) Two (2) Oil Tar Separator Tanks, T-7020 and T-7030, constructed in 1999, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(6) One (1) Surge Tank T-7800, with VOC emission vapors directed by a natural gas blanketing system CB3051 to Control Station No. 5 and into the 72-inch Suction Main.

(f) Distillation Sump Emission Control
One (1) Distillation Sump Emission Control System, identified as CBS80151, constructed in 1991, uses a nitrogen gas blanketing system to control fugitive VOC emission vapors.

(g) Coke Oven Gas (COG) High Pressure Control System, constructed in 1991, contains instrumentation and control valves designed to limit the maximum pressure in the COG distribution system. Excess COG pressure is directed to and combusted in a bleeder flare with emissions exhausting to Stack CG6077.

(h) Equipment in Benzene Service consists of several hundred components: pumps, exhausters, valves, flanges and pressure relief devices in light oil service within the byproducts plant.

Coke Oven Gas (COG) Desulfurization Facility

(a) One (1) amine unit, constructed in 1997, removes the hydrogen sulfide and other organic sulfur compounds from the coke oven gas (COG) stream.

(b) One (1) reflux unit, constructed in 1997, removes the ammonia and other acid gases from the COG stream.

(c) One (1) hydrogen cyanide (HCN) destruction unit, constructed in 1997 converts HCN in the acid gas stream to ammonia to minimize corrosion to the Sulfur Recovery Unit.

(d) One (1) sulfur recovery unit, constructed in 1997, converts the sulfur compounds in the acid gas stream to elemental sulfur. This sulfur is sold as a by-product.

(e) One (1) incineration unit, constructed in 1997, changes the sulfur compounds not removed by the sulfur recovery unit into sulfur dioxide which is burned off in the tail gas incinerator.

Number 2 Coke Plant Boiler House

(a) Two (2) Boilers, Nos. 1 and 2, identified as CSS10155 and CSS20156, constructed prior to 1970, with a maximum heat input capacity of 160 MMBtu per hour each, exhausting stack CS6061. These boilers are equipped to combust natural gas.

(b) One (1) Boiler, No. 3, identified as CSS30157, constructed in 1943, with a maximum heat input capacity of 160 MMBtu per hour, exhausting to stack CS6062. This boiler is equipped to combust natural gas and coke oven gas.

(c) Two (2) Boilers, Nos. 4 and 5, identified as CSS40158 and CSS50159, constructed prior to 1955, with a maximum heat input of 170 MMBtu per hour each, exhausting to stack CS6063. These boilers are equipped to combust natural gas and coke oven gas.

(d) One (1) Boiler No. 6, identified as CSS60160, constructed in 1955, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6064. This boiler is equipped to combust natural gas and coke oven gas.

(e) One (1) Boiler, No. 7, identified as CS70161, constructed in 1976, with a maximum heat input capacity of 170 MMBtu per hour, exhausting to stack CS6065. This boiler is equipped to combust natural gas and coke oven gas.

(f) One (1) Boiler, No. 8, identified as CSS80162, constructed in 1981, with a maximum heat input capacity of 250 MMBtu per hour, exhausting to stack CS6066. This boiler is equipped to combust natural gas and coke oven gas.

(g) One (1) natural gas fired boiler at the coke plant boiler house, identified as the temporary rental boiler CSS80163, constructed in 2004. with a maximum heat input capacity of 235 MMBtu/hr and equipped with a low NOx burner, exhausting to the existing stack CS6066.

(h) Two (2) boilers at the coke plant boiler house, identified as Boilers No. 9 CSS80164 and No. 10 CSS 80165, constructed in 2004, each with a maximum heat input capacity of 235 MMBtu/hr, exhausting to stacks CS6067 and CS6068, respectively. These boilers are equipped to burn natural gas and coke oven gas.

(i) One (1) lime storage silo with a maximum capacity of 20 tons per hour and emissions controlled by a baghouse LRS-1, constructed in 2001, exhausting inside the building.

Number 3 Sinter Plant:

(a) Three (3) Sinter Strands Windbox units, constructed in 1979, identified as ISS10379, ISS20380 and ISS30381, each with a 50 MMBtu per hour low NOx/flue gas recirculating burner system identified as ISB001, ISB002 and ISB003 and a maximum capacity of 225 tons of sinter per hour each, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, replaced in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, and VOC CEMS, exhausting to Windbox stacks IS6198 and IS6199.

(b) One (1) Cold Screen Station, identified as ISR00389, constructed in 1979, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.

(c) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers sinter from the sinter coolers to the cold screening station, using a Baghouse IS3208 as a control device and exhausting to stack IS6206.

(d) Three (3) Sinter Coolers, identified as ISC10385, ISC20386, and ISC30387, constructed in 1979, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203, IS6204, and IS6205 respectively.

(e) Three (3) Sinter Strand Discharge End Areas, identified as ISS10379, ISS20380 and ISS0381, constructed in 1979, using three (3) baghouses as control devices, designated as IS3205, IS3206, and IS3207, exhausting to stacks IS6200, IS6201, and IS6202 respectively.

(f) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, with a maximum capacity of 1,000 tons per hour, using a Baghouse IS3196 as a control device and exhausting to stack IS6197.

(g) Storage and Blending Piles, identified as ISBP0376, exhausting fugitive emissions.

Blast Furnaces

(a) Raw materials shipped to the ore yard identified as IAOYO366, are transferred to the

Highline, identified as IAHL0307, from which raw material shipments and coke are sent through the Stockhouse.

(b) The No. 13 Blast Furnace Stockhouse (sinter screening station), constructed in 1979, identified as IDSH0367, controlled by dust suppression, services Blast Furnaces No. 4, 6, 8 and 13.

(c) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas.

(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute into the No. 4 Blast Furnace.

(2) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 200 MMBtu per hour each, combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.

(3) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

(4) One (1) Slag Pit, identified as IASP0311, exhausting fugitive emissions.

(d) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 175 tons per hour, identified as IBBFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas.

(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate 70 gallons per minute into the No. 6 Blast Furnace.

(2) Three (3) No. 6 Blast Furnace Stoves identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 200 MMBtu per hour each, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(3) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

(4) One (1) Slag Pit, identified as IBSP0335, exhausting fugitive emissions.

(e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 160 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas.

(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 26 tons per hour, oil at a rate of 70

gallons per minute and/or coal tar at a rate of 70 gallons per minute into the No. 8 Blast Furnace.

(2) Three (3) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 200 MMBtu per hour each, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(3) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

(4) One (1) Slag Pit, identified as ICSP0363, exhausting fugitive emissions.

(f) No. 13 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas.

(1) Small water cooled nozzles called tyreres allow heat and oxygen into the blast furnace and inject pulverized coal at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute into the No.13 Blast Furnace.

(2) Four (4) No.13 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 330 MMBtu per hour each, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184

(3) No. 13 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187and fugitive emissions exhausting through the casthouse roof monitor ID6013;

(4) One (1) Slag Pit, identified as IDSP0371, exhausting fugitive emissions.

(g) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess pressure to the three (3) bleeder stacks equipped with Flare No. 1 Identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.

(h) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378, exhausting through stack IM6025.

(i) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375, exhausting through stack IM6025.

Number One Basic Oxygen Process (BOP) Shop

(a) Two (2) Stations, identified as No. 1 and No. 2, Desulfurization Stations (originally constructed in 1981) and Hot Metal Transfer Stations(originally constructed in 1965),and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer Stations SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped

with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100, equipped with a leak detection system, exhausting through stack SS6100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

(b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 63 tons per hour. Emissions are controlled by No.2, No. 3 and No. 4 bag houses SS3058, SS3059, and SS3053, all exhausting inside the building.

(c) Basic Oxygen Process (BOP) Furnace operations, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

(d) Two (2) gas cleaning systems SS3103 and SS3104 that process the exhaust gases from the three (3) steel making vessels consisting of three (3) quenchers, two (2) scuppers, two (2) venturi scrubbers, two (2) separators, two (2) gas coolers fitted with internal mist eliminators and two (2) induced draft fans. Emissions exhaust through stacks SS6102 and SS6103.

(e) CASbell/OB Lancing Stations M, D and E, include the controlled argon stirring process and blowing of oxygen to maintain temperature and chemistry. Constructed in 1981, Station M identified as SSCM0231, Station E identified as SSCE0232, and Station D identified as SSCD0233 with a maximum capacity of 250 tons per hour each. Emissions are controlled by the CASbell/OB Lancing baghouse SS3105, exhausting through Stack SS6104 and uncaptured emissions venting to the roof monitor SS6636.

(f) One (1) Slingot Station, including the casting of bottom-poured steel ingots, identified as SSST0226, constructed in 1965, exhausting to the roof monitor SS6637.

(g) Nine (9) natural gas fired Ladle Preheaters and Dryers identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructedin1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as SSLP0229, exhausting through Roof Monitor SS6637.

(h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of 445 tons per hour. Emissions exhaust through Roof Monitor SS6638.

(i) One (1) fugitive emissions mitigation system at the No.1 BOP Shop, constructed in June 2002, consisting of a capture hood system ducted to a 99% efficient baghouse with a flow rate of 11,500 acfm.

Number Two Q-BOP Shop

(a) Two (2) Hot Metal Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. Emissions are controlled by a baghouse NS3115, exhausting through stack NS6144 and fugitive emissions exhausting through the roof monitor NS6631.

(b) Two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the mixers and heaters are controlled by the Desulfurization Station Baghouse NS3115, exhausting through stack NS6144 and the fugitive emissions through roof monitor NS6631.

(c) Q-Basic Oxygen Process (BOP) operations, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, each with a maximum capacity of 500 tons per hour. Primary emissions are controlled by two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

(d) Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, two (2) induced draft fans and two (2) whirl vanes exhausting to Stacks NS6124 and NS6125.

(e) Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627and NS6628 returning emissions back to the process; One (1) North Flux Handling Baghouse at116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.

(f) Three (3) Ladle Metallurgical Facilities, LMF1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

(g) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Emissions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.

(h) One (1) Slag Conditioning Station, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.

(1) PM_{10} emissions from the station are controlled by a baghouse exhausting through Stacks S-1 through S-6 and back to the process.

(2) PM_{10} emissions from the material handling of slag conditioning and metallurgical

agents are exhausted through the No. 1 Hot fume exhaust baghouse NS3135, exhausting through Stack NS6146.

(i) One (1) Lime Dumping Station identified as NSFH0249, one (1) Daytank Lime Silo, identified as NSDS0250 and one (1) Desulfurization Lime and one (1) Mag Container identified as NSDS0245, constructed in 1971. Emissions are controlled by baghouses NS3122, NS3206 and NS3111, exhausting through the stacks NS6121, NS6629, and NS6624.

(j) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 600 tons per hour combined. Lines A and B were constructed in1986. Line C was constructed in 1991. Emissions from the continuous casters exhaust to the Roof Monitor NC6635. Emissions from Line C are discharged back to the slab spray water area for control.

(k) Fourteen (14) natural gas fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions exhaust through Roof Monitor NS6633.

(l) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions exhaust through Roof Monitor NS6631.

(m) Two (2) Skimming Stations, consisting of a skimmer, identified as NSS10292 and skimmer deslagger, identified as NSS20287. Both were constructed in 1973. Emissions exhaust through Roof Monitor NS6633.

(n) One (1) Slingot Station, identified as NSST0290, constructed in 1986, with emissions exhaust through Roof Monitor NS6634.

Hot Rolling Mill

(a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas and fuel oil, with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.

(b) Two (2) waste heat boilers Nos. 1 and 2 , identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas and coke oven gas. Emissions exhaust through Stacks HB6504, HB6505, RM6500, RM6501, RM6502 and RM6503, depending upon heat input configuration.

(c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, consisting of vertical and horizontal scale breakers, 5 roughing mills and 7-stand finishing mill with emissions exhausting through a Roof Monitor RM6630.

Continuous Pickling Lines

(a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.

(b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

Sheet Products Division

(a) North Sheet Mill

(1) One (1) 5-Stand Cold Reduction Mil, identified as H5M50637, constructed in 1964, with a maximum capacity of 380 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.

(2) Twenty-six (26) 4-Stack ABox@ Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 10 MMBtu per hour each. These furnaces are direct fired with emissions exhausting through vent pipes HT6530 through HT6555.

(3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of 213 tons per hour, exhausting fugitive emissions.

(4) One (1) 80-inch Recoil Line, constructed in1964, with a maximum capacity 114 tons per hour exhausting fugitive emissions.

(b) South Sheet Mill

(1) Seventeen (17) 8-Stack ABox@ Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from theses furnaces exhaust through the Roof Monitor HX6003.

(2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour. Emissions exhaust through the Roof Monitor H26004.

(3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace identified as H6F10527with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

(4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods.

(5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, exhausting fugitive emissions.

(6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, exhausting fugitive emissions

(c) Electro-galvanizing Line (EGL)

(1) One (1) Electro-galvanizing Line (EGL), with one HCl pickle tank, No.1 Pickle tank, identified as HET20685, a cleaner section, a plating section and associated scrubber, with a maximum capacity of 60.5 tons per hour. Emissions from the Pickle Section are controlled by a fume scrubber HE3583 exhausting through stack HE6563. The single sided process for this coating line was constructed in 1977 and was modified in 1993 to a double sided process for coating.

(2) One (1) natural gas fired Boiler No. 1 in the EGL Boiler House, identified as HBB10675, constructed in 1978 and modified in 2001, with a heat input capacity of 39.147 MMBtu per hour, exhausting through stack HB6559.

Tin Mill Operations

(a) One (1) 6-Stand Cold Reduction Mill, identified as TRM00709, constructed in 1967, with a maximum capacity of 150 tons per hour. Emissions are controlled by a mist eliminator TR3600, exhausting to stack TR6575.

(b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. Emissions are controlled by a fume scrubber exhausting to a stack.

(c) Two (2) Annealing Lines, No. 1 and No. 2, each containing an annealing furnace, identified as T1AF0794 and T2AF0799, No.1 constructed in 1950 and No. 2 constructed in 1959, with a maximum heat input capacities of 32 and 35 MMBtu per hour, respectively. Emissions exhaust to stacks T16609 and T26610. The No. 2 Continuous Anneal Line has a cleaning section with emissions collected in a fume scrubber exhausting through a stack.

(d) Five (5) 4-Stack ABox@ Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

(e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, exhausting fugitive emissions. This unit has a dust filter that exhausts inside the building.

(f) One (1) Double Reduction Mill with two (2) mill stands, identified as TDMO0742, constructed in 1963, with a maximum capacity of 75 tons per hour. Emissions are controlled by a mist eliminator D3603, exhausting to stack TD6595.

(g) One (1) No.1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The TFS line contains a Chemical Treatment Tank, identified as TFT10752, exhausting to Roof Monitor, TF6661 and a Chemical treatment rinse, identified as TFR00753, exhausting to stack TF6597.

(h) One (1) No. 5 Electrolytic Tinning Line 5 (ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with emissions exhausting through Roof Monitor T56071.

(i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment

Tank, identified as T6H00786, exhausting through Roof Monitor T56071.

(j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour.

(k) One (1) Tin Mill Recoil and inspection Line, constructed in 1967, with a maximum capacity of 14.8 tons per hour.

No. 4 Boiler House

(a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas and fuel oil, with a maximum heat input of 500 MMBtu per hour each, exhausting through Stacks O46268 and O46269, respectively.

(b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Turboblower Boiler House (TBBH)

(a) Three (3) Boilers, No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 400 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler, No. 4A, identified as OTB40465, constructed in 1990, with a maximum heat input of 244 MMBtu per hour when combusting natural gas and coke oven gas. Emissions exhaust through Stack OT6274, with NOx emissions monitored by a Predictive Emissions Monitoring System (PEMS).

(c) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, with a maximum heat input of 450 MMBtu per hour, exhausting through Stack OT6275.

(d) One (1) boiler, No. 6, identified as OTB60467, constructed prior to August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

Fugitive Dust Sources consisting of, but not limited to, the following:

(a) Paved Roads and Parking Lots

(b) Unpaved Roads and Parking Lots

(c) Batch Transfer-Loading and Unloading Operations

(d) Continuous Transfer In and Out of Storage Piles

(e) Batch Transfer Operations-Slag and Kish Handling

(f) Wind Erosion from Storage Piles and Open Areas

(g) In Plant Transfer by Truck or Rail

(h) In Plant Transfer by Front End Loader or Skip Hoist

(i) Material Processing Facility

(j) Crusher Fugitive Emissions

(k) Material Processing Facility Building Openings

(l) Dust Handling Equipment

Emission Units and Pollution Control Equipment

The following facilities/units were listed in the original Part 70 Operating Permit Application as having no approvals. This Part 70 operating permit will satisfy the requirements for these units and control devices. The following equipment has been listed above and in permit D sections associated with their operations.

(a) One (1) No. 1 BOP Shop CASbell/OB Lancing Stations (E, M and D)
(b) One (1) No. 2 Q-BOP Shop LMF Number 3
(c) Three (3) No. 2 Q-BOP Shop Ladle Preheater/Dryers (3 of 14 Preheater/Dryers)
(d) One (1) Blast Furnace Gas Flare No. 1
(e) One (1) Blast Furnace Gas Flare No. 2
(f) One (1) Blast Furnace Gas Flare No. 4
(g) One (1) Coke Oven Gas (COG) Flare on COG Distribution System

Insignificant Activities

(a) Specifically regulated insignificant activities:

(1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(2) Cleaners and solvents characterized as follows:
(A) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100EF) or;
(B) Having a vapor pressure equal to or less than 0.7 kPA; 5mm Hg; or 0.1 psi measured at 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(3) The following VOC and HAP storage containers:
(A) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
(B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(4) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(5) Any of the following structural steel and bridge fabrication activities:
(A) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.
(B) Using 80 tons or less of welding consumables.

(6) Conveyors as follows:
(A) Covered conveyor for coal or coke conveying of less than or equal to 360

tons per day;

(7) Coal bunker and coal scale exhausts and associated dust collector vents.

(8) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.

(9) Vents from ash transport systems not operated at positive pressure.

(b) Other insignificant activities

(1) Space heaters, process heaters, or boilers using the following fuels:

(A) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(B) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.

(2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour.

(3) Combustion source flame safety purging on startup.

(4) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

(5) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

(6) Refractory storage not requiring air pollution control equipment.

(7) Equipment used exclusively for filling drums, pails or other packaging containers the lubricating oils, waxes, and greases.

(8) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings

(9) Closed loop heating and cooling systems.

(10) Rolling oil recovery systems.

(11) Groundwater oil recovery wells.

(12) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(13) Water runoff ponds for petroleum coke-cutting and coke storage piles.

(14) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.

(15) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.

(16) Noncontact cooling tower systems with forced and induced draft cooling tower system not regulated under a NESHAP.

(17) Quenching operations used with heat treating processes.

(18) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(19) Heat exchanger cleaning and repair.

(20) Process vessel degreasing and cleaning to prepare for internal repairs.

(21) Stockpiled soils from soil remediation activities that are covered and waiting transportation for disposal.

(22) Paved and unpaved roads and parking lots with public access.
(23) Asbestos abatement projects regulated by 326 IAC 14-10.
(24) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
(25) Flue gas conditioning systems and associated chemicals such as the following: sodium sulfate, ammonia, and sulfur trioxide.
(26) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
(27) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
(28) On-site fire and emergency response training approved by the department.
(29) Emergency generators as follows:
(A) Gasoline generators not exceeding 110 horsepower.
(B) Diesel generators not exceeding 1600 horsepower.
(C) Natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
(30) Other emergency equipment: Stationary fire pumps.
(31) Purge double block and bleed valves.
(32) Filter or coalescer media changeout.
(33) A laboratory as defined in 326 IAC 2-7-1(21)(D).
(34) Conveyors as follows:
(A) Uncovered coal conveying of less than or equal to 120 tons per day.
(B) Underground conveyors.

Existing Approvals

The source has been operating under previous approvals including, but not limited to the following:

(a) IDEM-OAQ Permits

(1) CP089-2936-00133, issued July 2, 1993
(2) CP089-4041-00133, issued January 18, 1995
(3) R089-2158-00121, issued September 23, 1997
(4) CP089-3279-00121, issued January 10, 1994
(5) CP089-3663-00121, issued May 31, 1994
(6) CP089-4325-00121, issued February 24, 1995
(7) CP089-4442-00133, issued May 8, 1995
(8) CP089-6225-00121, issued August 7, 1996
(9) CP089-6226-00121, issued August 16, 1996
(10) CP089-8150-00121, issued July 20, 1997
(11) CP089-8606-00121, issued October 27, 1997
(12) AA089-9035-00121, issued November 12, 1997
(13) CP089-9568-00121, issued September 29, 1997
(14) CP089-10037-00121, issued August 26, 1998
(15) CP089-10095-00121, issued September 21, 1998
(16) MSM089-10160-00121, issued January 13, 2000
(17) MSM089-10551-00121, issued February 10, 1999
(18) EX089-11500-00121m issued August 1, 2001
(19) AA089-11953-00121, issued April 15, 2000
(20) MSM089-12137-0012, issued October 16, 2000
(21) EX089-12152-00455, issued May 25, 2000

(22) SSM089-12880-00121, issued August 26, 2001
(23) MSM089-14424-00121, issued August 4, 2001
(24) MSM089-14658-00121, issued October 2, 2001
(25) EX089-14692-00121, issued December 17, 2001
(26) AA089-14950-00121, issued November 30, 2001
(27) MSM089-15121-00121, issued March 14, 2002
(28) MSM089-15694-00121, issued August 21, 2002
(28) EX089-15929-00121, issued June 20, 2002
(29) SSM089-19678-00121, issued October 29, 2004

(b) City of Gary Department of Environmental Affairs Permits

(1) 02360, 02361, 02363 and 02364, issued February 22, 1994
(2) 02370, 02372 and 02374, issued February 22, 1994
(3) 02376 through 02397, issued February 22, 1994
(4) 02411, 02412 and 02414, issued February 22, 1994
(5) 02416 through 02422, issued February 22, 1994
(6) 02424 through 02453 and 02456, issued February 22, 1994
(7) 02459 through 02460, issued February 22, 1994
(8) 02465, 02467 and 02468, issued February 22, 1994
(9) 02479 through 02490 and 02495 through 02501, issued February 16, 1994
(10) 02502 through 02505, 02509 and 02511 issued February 22, 1994
(11) 02519 through 02523, 02528 and 02529, issued February 22, 1994
(12) 02535 an 02538, issued February 22, 1994
(13) 02545 through 02562 and 02568, issued February 22, 1994
(14) 02572 and 02579, issued February 22, 1994
(15) 02587 through 02605 and 02608, issued February 22, 1994
(16) 02626 through 02628, issued February 22, 1994
(17) 02643, 02645 and 02646, issued February 22, 1994
(18) 12650 through 02653, issued February 22, 1994
(19) 02661and 02662, issued February 22, 1994

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

All conditions from previous approvals were incorporated into this Part 70 permit except the following:

(a) EX089-12152-00455, issued on May 25, 2000.

All the conditions in permit EX089-12152-00455

Reason not incorporated: The BOP Filter Cake Briquetting Facility no longer exists per comments received from the source on August 5, 2003.

(b) Minor Source Modification 089-10551-00121, issued February 10, 1999

Condition D.1. Pursuant to 326 IAC 6-3, the particulate matter (PM) from the pet coke crusher, used as a second coal crusher shall comply with 326 IAC 6-3-2(c) using the following equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Reason not incorporated: Since the source is located in a nonattainment area for particulate matter, and its potential to emit PM is over 100 tons of particulate matter per year, the equipment at this source is subject to the requirements of 326 IAC 6-1. Therefore, 326 IAC 6-3 does not apply.

(c) Prior and current Variance approvals of SO_2 limits have not been incorporated into this permit, because the SO_2 variance approvals are of short duration (usually one year), from state law only and do not change federally approved State Implementation Plan (SIP) requirements. Upon completion of the SO_2 rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as State Implementation Plan revisions. Once the State Implementation Plan revisions are approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised limits and conditions within thirty (30) days.

The modifications with conditions containing SO_2 variance limits that have not been included in this permit are as follows:

(1) Minor Source Modification 089-12137-00121, issued October 16, 2000

Condition D.1.3 Pursuant to a Variance of 326 IAC 7-4-1.1(c)(22), effective March 8, 2000 to March 8, 2001, the SO_2 emission from the TBBH Boilers Nos. 1, 2, 3 and 5 Stacks (OT6271, OT6272, OT6273 and OT6275) shall be as follows:

(A) SO_2 emission from TBBH Boilers Nos. 1, 2, 3 and 5 shall not exceed 0.182 lb/MMBtu (total) and 300.6 pounds per hour (total) when the coke oven gas desulfurization facilities is not operating.

(B) SO_2 emission from TBBH Boilers Nos. 1, 2, 3 and 5 shall not exceed 0.182 lb/MMBtu (total) and 300.6 pounds per hour (total) when the coke oven gas desulfurization facility is operating.

(2) Construction Permit 089-9568-00121, issued September 21, 1998

Condition D.1.3. Pursuant to a Variance of 326 IAC 7-4-1.1(c)(22), effective June 23, 1998 to June 23,1999 or on the effective date of rule changes, whichever comes first, the SO_2 emissions from the TBBH No. 4A, shall be limited as follows:

(A) When the coke oven gas desulfurization facility is not operating the SO_2 emissions shall be limited to 1.02 pounds of SO_2 per MMBtu of heat input and 248.9 pounds of SO_2 per hour.

(B) When the coke oven gas desulfurization facility is operating, the SO_2 emissions shall be limited to 0.260 pound of SO_2 per MMBtu of heat input and 63.5 pounds of SO_2 per hour emitted.

(3) Minor Source Modification 089-10160-00121, issued January 13, 2000

Condition D.1.5. Pursuant to a Variance of 326 IAC 7-4-1.1(c)(22), effective March 8, 1999 to March 8, 2000 the SO_2 emissions from the TBBH No. 6, shall be limited as follows:

(A) When the coke oven gas desulfurization facility is not operating the SO_2 emissions shall be limited to 0.182 pound of SO_2 per MMBtu of heat input and 136.7 pounds of SO_2 per hour emitted.

(B) When the coke oven gas desulfurization facility is operating, the SO_2 emissions shall be limited to 0.182 pound of SO_2 per MMBtu of heat input and 136.5 pounds of SO_2 per hour emitted.

(d) Prior variance approvals of PM_{10} limits have not been incorporated, because the PM_{10} variance approvals are of short duration (usually one year), from state law only and do not change federally approved State Implementation Plan requirements. IDEM submitted the new PM_{10} State Implementation Plan rule revisions of 326 IAC 6 to the U.S. EPA. The U.S. EPA approved the PM_{10} SIP revisions and they became effective May 21, 2004. The revised PM10 SIP limits have been incorporated in this Part 70 permit.

The modifications with conditions containing PM_{10} variance limits that have not been included in this permit are as follows:

(1) Minor Source Modification 089-12137-00121, issued October 16, 2000

Condition D.1.2. Pursuant to a variance of 326 IAC 6-1-10.1(d)(42), effective March 8, 2000 to March 18, 2001, the PM_{10} emissions from TBBH-Boilers Nos. 1, 2, 3 and 8 stacks (OT6271, OT6272, OT 6273 and OT 6275) shall not exceed 0.037 pound per MMBtu (total) and 61.0 pounds per hour (total).

(2) Construction Permit 089-9568-00121, issued September 21, 1998

Condition D.1.2. Pursuant to a Variance of 326 IAC 6-1-10.1(d)(42), effective June 23, 1998 to June 23,1999, the PM_{10} emissions from the TBBH No. 4A Stack S-1shall be limited to 0.012 pound of PM_{10} per MMBtu of heat input and 2.90 pounds of PM_{10} per hour.

(3) Minor Source Modification 089-10160-00121, issued January 13, 2000

Condition D.1.4. Pursuant to a Variance of 326 IAC 6-1-10.1(d)(36), effective March 8, 2000 to March 8, 2001, PM_{10} emissions from the TBBH Boiler No. 6 shall not exceed 0.037 pound of PM_{10} per MMBtu of heat input and 27.8 pounds of PM_{10} per hour emitted.

(4) Minor Source Modification 089-14424-00121, issued August 2, 2001.

Condition D.1.2. Pursuant to a Variance of 326 IAC 6-1-10.1(d)(42), dated April 30, 2001, PM_{10} emissions from the EGL boiler shall not exceed 0.13 pound of PM_{10} per MMBtu of heat input and burn natural gas only.

(5) Minor Source Modification 089-15694-00121, issued August 21, 2002

Condition: D.1.1. Pursuant to the Variance Decision dated April 30, 2001, PM_{10} emissions from the EGL boiler shall not exceed 0.13 lbs/hr and the boiler shall burn natural gas only.

(e) EX089-14692-00121, issued on December 17, 2000.

All the conditions in permit EX089-14692-00121

Reason not incorporated: The synthetic fuel facility was never constructed per comments received from the source on August 5, 2003.

(f) Significant Source Modification 089-14988-00121, issued July 19, 2002.

(1) Condition 7: That the input natural gas to the Plate Mill Heat Treat Furnace shall be limited to 279.2 million cubic feet per year rolled on a daily basis. This production limitation is equivalent to NOx emissions of 25.1 tons per 365-day period, rolled on a daily basis.

(2) Condition 10(a) through (e): That a log of information necessary to document compliance with operation permit condition no. 7for the Plate Mill Heat Treat Furnace shall be maintained. These records shall be kept for at least the past 36 month period and made available on request.

(A) A quarterly summary shall be submitted for the Plate Mill Heat Treat Furnace.

(B) Unless otherwise specified in this permit, any notice, report, or other submissions required by this permit for the Plate Mill Heat Treat Furnace shall be timely.

(C) All instances of deviations from any requirements of this permit for the Plate Mill Heat Treat Furnace must be clearly identified in such reports.

(D) Any corrective actions taken as a result of an exceedance of a limit for the Plate Mill Heat Treat Furnace, excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.

Reason not incorporated: The ownership of the Plate Products Division (which includes the Plate Mill Heat Treat Furnace) at US Steel Corporation – Gary Works was transferred to ISG Corporation, according to letter dated March 19, 2004.

(g) Construction Permit 089-8606-00121, issued October 20, 1997

Condition 7: The input natural gas to the Annealing Furnaces shall be limited to 3.1 million cubic feet per month. This production limitation is equivalent to NOx emissions of 0.22 tons per month. Therefore the Emission Offset rules, 326 IAC 2-3 will not apply.

Reason not incorporated: The limits are not expressed as 12-consecutive month period totals with compliance demonstrated at the end of each month. The natural gas usage limit has been revised in this permit to be complied with on an annual basis.

(h) City of Gary Department of Environmental Affairs Permits 02479 through 02490 and 02495 through 02501, issued February 16, 1994

All the conditions in permits 02479 through 02490 and 02495 through 02501.

Reason not incorporated: The ownership of the Plate Products Division (which includes the Plate Mill Heat Treat Furnace) at US Steel Corporation – Gary Works was transferred to ISG Corporation, according to letter dated March 19, 2004.

(i) Minor Source Modification 089-12137-00121, issued October 16, 2000.

Condition D.1.1 NOx Emissions Limitations

(1) The Permittee shall not allow NOx emissions from TBBH boilers 1, 2 and 3 to exceed 135.1 TPY (combined total for all three boilers) during the combustion of natural gas or fuel oil.

(2) The Permittee shall not allow more than 123,670.6 MMCF of Blast Furnace Gas (combined total for all three boilers) to be combusted in TBBH boiler no.'s 1, 2 and 3 per twelve consecutive month period rolled on a monthly basis, There will be a increase of 67 TPY NOx at TBBH boiler no.'s 1, 2 and 3 caused by the diversion of BFG from the flare. This will cause a decrease at the flare of 67 TPY NOx.

Compliance with these limitations will ensure that the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) do not apply.

Reason not incorporated: There are blanket limitations that are not enforceable. Also, item (2) is for informational purposes only. At the time of issuance of the Part 70 permit it will be 5 years since the modification was done. The NOx limitations in the modification are no longer applicable. Therefore, inclusion of the limitations is not necessary as this was a change at an existing unit. .

(j) Minor Source Modification 089-10160-00121, issued January 13, 2000.

Condition D.1.1 (b) NOx Emissions Limitations

If the required stack test determines that NOx is emitted at a level greater than 0.14 pounds of NOx per MMBTU of heat input, then the natural gas usage in the TBBH boiler No. 6 shall not exceed 741.8 MMCF per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

Reason not incorporated: A stack test was performed in March 9, 2001 and the SO_2 emissions were at a level less than 0.14 pound per hour.

(k) Minor Source Modification 089-10551-00121, issued February 10, 1999 and . Administrative Amendment 089-11953-00121, issued April 15, 2000.

Condition D.1

(a) The petroleum coke crusher in service as a coal crusher shall not discharge into the atmosphere particulate matter in excess of 0.007 grams per dry cubic meter (gr/dscm) (0.03 grains per dry standard cubic foot (gr/dscf)).

(b) Any change or modification which may increase the potential to emit of PM or PM_{10} to 25 or 10 tons per year or more from the equipment covered in this minor source modification must be approved by the Office of Air Management (OAM) before such change may occur.

Reason not incorporated:
Condition D.1.1(a) the 326 IAC 6-1-2(a) particulate matter rule language was updated in the revised PM_{10} State Implementation Plan (SIP) and the crusher particulate limitations are covered in the revised SIP. Condition D.1(b) is not an enforceable condition.

(l) Minor Source Modification 089-14658-00121, issued October 2, 2001, A089-14950-00121, issued November 30, 2001

Condition D.1.1
Pursuant to 326 IAC 6-1-2(a), the particulate matter (PM) emissions from the lime storage silo baghouse shall not exceed three-hundredths (0.03) grain per dry standard cubic foot. Compliance with this limit will limit Particulate and PM_{10} emissions to less than 1.3 tons per year, making 326 IAC 2-3 (Emissions Offset) not applicable for the modification.

Reason not incorporated:
Condition D.1.1 The 326 IAC 6-1-2(a) particulate matter rule language was updated in the revised PM_{10} State Implementation Plan (SIP) and the particulate limitations for the lime storage silo baghouse are covered in the SIP. This limit is less than the 15 tons of PM_{10} and 25 tons of particulate per year, making 326 IAC 2-3 (Emission Offset) not applicable.

(m) CP 089-8150-00121, issued July 23, 1997

Condition 11(a)
Pursuant to the PM_{10} emissions for the RH vacuum degasser slag conditioning station shall be as follows:

(1) The PM_{10} emissions shall not exceed 0.007 grains per dry standard cubic foot at the outlet of its associated baghouse,

(2) The PM_{10} emissions shall not exceed 3.2 pounds per hour at the outlet of the baghouse, and

(3) Operate only five (5) of the six (6) modules of the associated baghouse at a maximum of 125,000 actual cubic feet per minute at all times when this facility is in operation.

(4) Compliance with these limits makes 326 IAC 2-3 Emission Offset rules not applicable.

Reason not incorporated:
Condition 11(a) The 326 IAC 6-1-2(a) particulate matter rule language was updated in the revised PM_{10} State Implementation Plan (SIP) and the particulate limitations for the RH vacuum degasser slag conditioning station exhausting to the baghouse is covered in the PM_{10} SIP. This SIP limit is less than the 15 tons of PM_{10} and 25 tons of particulate per year, making 3265 IAC 2-3 (Emission Offset) not applicable.

(n) Minor Source Modification 089-15694-00121, issued August 21, 2002
Condition D.1.5, To document compliance with condition D.1.1, the Permittee shall submit within thirty (30) days of the end of each calendar quarter, for EGL-1 Boiler the following:

Calculated PM_{10} emission rate in pounds per hour, based on a daily average.

Reason not incorporated:
This requirement is not relevant nor is it enforceable.

(o) Significant Source Modification 089-19678-00121, issued October 29, 2004

(1) Condition D.1.3 second sentence After receiving the rule variance from 326 IA 7-

4-1.1, the Permittee shall submit a significant permit application to include the specific requirements in this subpart for coke oven gas combustion.

(2) Condition D.1.6(a)

Pursuant to the rule variance from 326 IAC 7-4-1.1(c)(22), issued on April 30, 2001 (the variance renewal expires on May 18, 2005), the Permittee shall comply with the following SO_2 emission limits for boilers No. 1 through No. 8 at the coke plant boiler house:

(1) The Permittee shall comply with the following SO_2 emission limits when the coke oven gas desulfurization facility is operating:

Unit	SO_2 Emission Limit (lbs/MMBtu)	SO_2 Emission Limit (lbs/hr)
Boilers No. 1 and No. 2	0.0006 (each)	-
Boiler No. 3	0.26	40.6
Boilers No. 4 and No. 5	0.26	87.9 (total)
Boiler No. 6	0.26	44.0
Boiler No. 7	0.26	42.1
Boiler No. 8	0.26	64.7

(2) The Permittee shall comply with the following SO_2 emission limits when the coke oven gas desulfurization facility is not operating:

Unit	Condition (See note)	Season	SO_2 Emission Limit (lbs/MMBtu)	SO_2 Emission Limit (lb/hr)
Boilers Nos. 1, 2, 3, and 7	---	---	0.0006 (each)	---
Boiler No. 6	---	---	1.27	214.6
Boiler No. 8	---	---	1.27	316.2
Boilers No. 4 and No. 5	(1) - Yes (2)- No	Jan – Apr May – Oct Nov & Dec	1.130 1.183 0.905	382 (total) 400 (total) 306 (total)
Boilers No. 4 and No. 5	(1) - Yes (2)- Yes	Jan – Apr May – Oct Nov & Dec	0.592 1.095 0.716	200(total) 370total) 242(total)
Boilers No. 4 and No. 5	(1) - No (2)- No	Jan – Apr May – Oct Nov & Dec	0.512 1.139 0.704	173(total) 385(total) 238(total)
Boilers No. 4 and No. 5	(1) - NO (2)- Yes	Jan – Apr May – Oct Nov & Dec	0.638 1.139 0.639*	231(total) 385(total) 216(total)

Note: (1) refers to when Blast Furnace No. 13 is combusting blast furnace gas.

(2) refers to when Turboblower Boiler Hose Boiler No. 4A or any Plate Mill Furnace is combusting coke oven gas.
"-" means no specific requirements.

Reason not incorporated: Prior and current Variance approvals of SO_2 limits have not been incorporated into this permit, because the SO_2 variance approvals are of short duration (usually one year), from state law only and do not change federally approved State Implementation Plan (SIP) requirements. Upon completion of the SO_2 rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as State Implementation Plan revisions. Once the State Implementation Plan revisions are approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised limits and conditions within thirty (30) days.

(p) Significant Source Modification 089-19678-00121, issued October 29, 2004

Condition D.1.4(b)

(b) Pursuant to 40 CFR 60.48b, the Permittee shall comply with one of the following monitoring conditions for boilers No. 9, No. 10, and the temporary rental boiler at the coke plant boiler house when combusting natural gas:

(1) Pursuant to 40 CFR 60.48b(b), the Permittee shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere; or

(2) Pursuant to 40 CFR 60.48b(g)(2), the Permittee shall monitor the operating conditions for the affected boilers and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c).

Reason not incorporated: The language in this condition relates to compliance determination and was moved to the compliance determination portion of the D section in this permit. .

(q) Significant Source Modification 089-19678-00121, issued October 29, 2004

Condition D.1.12(c)

(c) The continuous monitors shall be operated according to Section C - Maintenance of Continuous Emission Monitoring Equipment. In the event that the nitrogen oxide continuous emissions monitor fails, the Permittee shall monitor the oxygen content and temperature once per hour. If the oxygen content or temperature is outside the range established in the latest compliance stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Failure to take response steps in accordance

Reason not incorporated: This requirement was replace by the NOx monitoring requirement in 40 CFR 60.48b(f) in the Compliance Determination of the D section of this permit.

Enforcement Issue

IDEM incorporated all equipment associated with this permit review into this Part 70 Permit. This

proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on December 13, 1996. Additional information was received on August 10, 2000, December 10, 2002, and November 8, 2004.

A notice of completeness letter was not mailed to the source.

Potential to Emit of the Source

Pursuant to 326 IAC 2-7-1(29), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, inclulding air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	greater than 100
PM_{10}	greater than 100
SO_2	greater than 100
VOC	greater than 25
CO	greater than 100
NO_x	greater than 100

HAP=s	Potential To Emit (tons/year)
HCl	greater than 10
TOTAL	greater than 10

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM_{10}, SO_2, NOx and CO are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is equal to or greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(d) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under

326 IAC 2-2, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Actual Emissions - US Steel - Gary Works

The following table shows the actual emissions from US Steel - Gary Works. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	3628
PM_{10}	3355
SO_2	6952
VOC	2000.5
CO	89107
NOx	5123
Lead	1.0
HAP	---

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM_{10}	attainment
SO_2	nonattainment
NO_2	attainment
1-hour Ozone	nonattainment
8-hour Ozone	nonattainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

(1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when valuating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as severe nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offsets, 326 IAC 2-3. See the State Rule Applicability.

(2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as moderate nonattainment for the 8-hour standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for nonattainment new source review.

(b) Lake County has been classified as nonattainment for SO_2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(c) Lake County has been classified as attainment for PM10, NOx, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

(a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.

(b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

Coal Handling Operation

(a) The provisions of 40 CFR 60, Subpart A- General Provisions, which are incorporated by reference in 326 IAC 12, apply to the pet coke crusher used as a second coal crusher, except when otherwise specified in 40 CFR 60 Subpart Y.

(b) The requirements of the New Performance Standards (NSPS) 326 IAC12 and 40 CFR 60.250 through 60.254 Subpart Y for Coal Preparation Plants are included in this permit for the pet coke crusher used as a second coal crusher. The pet coke crusher used as a second coal crusher processes more than 200 tons of coal per day and was constructed or modified after October 24, 1974.

Coke Battery Operations

(a) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-3, apply to the Coke Oven Batteries Nos. 2, 3, 5 and 7, except when otherwise specified in 40 CFR Part 63, Subpart L.

(b) The requirements of the National Emission Standards for Hazardous Air Pollutants NESHAPS), 326 IAC 20, (40 CFR 63, Subpart L) are included in this permit for the Coke Oven Batteries Nos. 2, 3, 5 and 7. These coke oven batteries were owned and operated by an integrated steel mill producer on April 1, 1992 and listed in Appendix A of 40 CFR 63 Subpart L. See Section D.2 for detailed requirements.

(c) The requirements of National Emission Standards for Hazardous Air Pollutants NESHAPS) for Coke Ovens: Pushing, Quenching and Battery Stacks , 40 CFR 63, Subpart CCCCC, are included in this permit for the Nos. 2, 3, 5 and 7 Coke oven batteries. These Coke oven batteries are existing units as of July 13, 2001 and located at an integrated iron and steel manufacturing facility that is a major source of Hazardous Air

Pollutants that has the potential to emit 10 tons or more of a single HAP and/or 25 tons or more of a combination of HAPS per year. See Section D.2 for detailed requirements.

Coke By-Product Recovery Plant

(a) The provisions of 40 CFR Part 61, Subpart A - General Provisions which are incorporated by reference in 326 IAC 14, apply to the Coke By-Product Recovery Plant, except when otherwise specified in 40 CFR Part 61, Subpart L (National Emission Standards for Benzene from Coke By Product Recovery Plants), 40 CFR Part 61, Subpart V (National Emission Standards for Equipment Leaks (Fugitive Emission Sources), and 40 CFR Part 61, Subpart FF (National Emission Standards for Benzene Waste Operations).

(b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR 61, Subpart L National Emission Standards for Benzene from Coke By Product Recovery Plants, is included in this permit for this Coke By-Product Recovery Plant. The equipment is located in a coke by-product plant. See Section D.3 of this Part 70 permit for detailed requirements.

(c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR 61, Subpart V, National Emission Standards for Equipment Leaks (Fugitive Emission Sources) Coke By Product Recovery Plants is included in this permit for this Coke By-Product Recovery Plant. The equipment is located in a coke by-product plant. See Section D.3 of this Part 70 permit for detailed requirements.

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR 61, Subpart FF National Emission Standards for Benzene Waste Operations are included in this permit for the Coke By-Product Recovery Plant. The equipment is located at coke by-product plant. See Section D.3 of the Part 70 permit for detailed requirements.

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR 61, Subpart J Equipment Leaks (Fugitive Emission Sources) of Benzene, are not included in this permit for this Coke By-Product Recovery Plant. The equipment is located in a coke by-product plant.

(f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Benzene Storage Vessels 40 CFR 61, Subpart Y are not included in this permit for this Coke By-Product Recovery Plant. The storage vessels are used for storing benzene at coke by-product facilities.

Number 2 Coke Plant Boiler House

(a) Nos.1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, 2, 3, 4, 5, 6, 7 8, 9, 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House comprise one existing affected source for the large liquid fuel subcategory as defined by 40 CFR 63.7506(b), because they meet the criteria in the definition in 40 CFR 63.7575 for the limited liquid fuel subcategory.. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

(b) Nos.1, 2, 3, 4, 5, 6, 7 8, 9, 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, 2, 3, 4, 5, 6, 7 8, 9, 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House comprise one existing affected source for the large gaseous fuel subcategory as defined by 40 CFR 63.7506(b), because it meets the criteria in the definition in 40 CFR 63.7575 for the large gaseous fuel subcategory. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

(c) The provisions of 40 CFR Part 60, Subpart A - General Provisions which are incorporated by reference in 326 IAC 12, apply to the No. 9, No. 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House, except when otherwise specified in 40 CFR Part 60 Subpart Db.

(d) The New Source Performance Standards (NSPS) 326 IAC 12 and 40 CFR Part 60.40b through 60.49b, Subpart Db is included in this permit for No. 9, No. 10 and the temporary rental Boilers at Number 2 Coke Plant Boiler House. The heat input capacity for each is greater than two hundred fifty (250) MMBtu per hour and were constructed after August 17, 1971. See Section D.5 of this permit for detailed requirements.

No. 3 Sinter Plant

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20, apply to the No. 3 Sinter Plant , except when otherwise specified in 40 CFR 63 Subpart FFFFF(Integrated Iron and Steel Manufacturing facilities).

(b) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR 63, Subpart FFFFF, National Emission Standards for Integrated Iron and Steel Manufacturing Facilities, is included in this permit for the No. 3 Sinter Plant. The No. 3 Sinter Plant is an existing unit as of July 13, 2001 and is located at an integrated iron and steel manufacturing facility that is a major source of Hazardous Air Pollutants that has the potential to emit 10 tons or more of a single HAP and/or 25 tons or more of a combination of HAPS per year. See Section D.6 of this Part 70 permit for detailed requirements.

Blast Furnaces

(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20, apply to the Nos. 4, 6, 8 , and 13 Blast Furnaces, except when otherwise specified in 40 CFR 63 Subpart FFFFF (Integrated Iron and Steel Manufacturing facilities).

(b) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR 63, Subpart FFFFF, National Emission Standards for Integrated Iron and Steel Manufacturing Facilities, is included in this permit for the Nos.4, 6, 8 and 13 Blast Furnaces and casthouses. The Nos.4, 6, 8 and 13 Blast Furnaces and casthouses are existing units as of July 13, 2001 and is located at an integrated iron and steel manufacturing facility that is a major source of Hazardous Air Pollutants that has the potential to emit 10 tons or more of a single HAP and/or 25 tons or more of a combination

of HAPS per year. See Section D.7 of this Part 70 permit for detailed requirements.

(c) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR 63, Subpart DDDDD National Emission Standards for Commercial, Industrial and Institutional Boiler are not included in this permit. In accordance with the provisions in 40 CFR 63.7491 (k) stoves at Blast Furnaces are exempt from this NESHAP.

Number 1 BOP Shop

(a) The requirements of the New Source Performance Standards (NSPS) of 40 CFR 60 Subpart N, Standards of Performance for Primary Emissions from Basic Oxygen Process Furnaces is not included in this permit for the BOP Furnace Operations. Construction of these units commenced prior to June 11, 1973.

(b) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20, apply to the No. 1 BOP Shop , except when otherwise specified in 40 CFR 63 Subpart FFFFF(Integrated Iron and Steel Manufacturing facilities).

(c) The National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR 63, Subpart FFFFF, National Emission Standards for Integrated Iron and Steel Manufacturing Facilities are included in this permit for the No. 1 BOP Shop. The No. 1 BOP Shop is an existing unit as of July 13, 2001 and is located at an integrated iron and steel manufacturing facility that is a major source of Hazardous Air Pollutants that has the potential to emit 10 tons or more of a single HAP and/or 25 tons or more of a combination of HAPS per year. See Section D.8 of this permit for the detailed requirements.

Number 2 Q-BOP Shop

(a) The requirements of the New Source Performance Standards (NSPS) 40 CFR 60 Subpart N, Standards of Performance for Primary Emissions from Basic Oxygen Process Furnaces are not included in this permit for the Q-BOP Furnace Operations. Construction of these units commenced prior to June 11, 1973.

(b) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20, apply to the No. 2 Q-BOP Shop , except when otherwise specified in 40CFR 63 Subpart FFFFF(Integrated Iron and Steel Manufacturing facilities).

(c) The National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR 63, Subpart FFFFF, National Emission Standards for Integrated Iron and Steel Manufacturing Facilities are included in this permit for the No. 2 Q-BOP Shop. The No. 2 Q-BOP Shop is an existing unit as of July 13, 2001 and is located at an integrated iron and steel manufacturing facility that is a major source of Hazardous Air Pollutants that has the potential to emit 10 tons or more of a single HAP and/or 25 tons or more of a combination of HAPS per year. See Section D.9 of this permit for detailed requirements.

Hot Rolling Mill

The requirements of New Source Performance Standards (NSPS) 40 CFR 60 Subpart Db, Standards of Performance for industrial-Commercial -Institutional Steam Generating units with a heat input capacity of greater than 100 MMBtu per hour are not included in this permit for the Nos. 1 and 2 waste heat boilers (RB1B0508 and RB2B0509). Construction of these units commenced after June 19, 1984, but on or before June 19, 1986.

Two Continuous Pickle Lines

(a) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Steel Pickling – HCl Process Facilities and Hydrochloric Acid Regeneration Plants (40 CFR 63 Subpart CCC) are included in this permit for the 84-inch and 80-inch Continuous Pickle Lines, because they are existing steel pickling facilities that pickle carbon steel using hydrochloric acid solution that contains 6 percent or more by weight HCl and is at a temperature of 100° F or higher. See section D.11of this permit for specific detailed requirements.

(b) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Steel Pickling – HCl Process Facilities and Hydrochloric Acid Regeneration Plants (40 CFR 63 Subpart CCC) are included in this permit for the HCl tanks, because hydrochloric acid storage vessels are considered as part of the affected source. See Section D.11 of this permit for specific detailed requirements

Electro-Galvanizing Line

(a) The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12, apply to the Electro-galvanizing Line (EGL-1) natural gas fired Boiler, except when otherwise specified in 40 CFR 60 Subpart Dc.

(b) The New Source Performance Standard (NSPS) 326 IAC 12, (40 CFR 60.40c through 60.49c, Subpart Dc) was included in this permit for EGL-1 natural gas fired boiler. The heat input capacity is greater than ten 10 MMBtu per hour but less than one hundred (100) MMBtu per hour and was modified after June 8, 1989.

Tin Mill Operations

The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart N, National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, were not included in this permit for the Continuous Chromium Electroplating. The electroplating of steel at steel mills would be addressed in a future rule, per a letter dated April 11, 1996 from George Czerniack, US EPA Region 5 to Charles Carson at US Steel-Gary Works and Felicia George, Asst. Commissioner, IDEM-OAQ.

Boiler House No. 4

(a) The New Source Performance Standards (NSPS) 40 CFR 60.40 through 60.49 Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators was not included in this permit for Nos.1, 2 and 3 Boilers at Boiler House No. 4. Construction of these units commenced prior to August 17, 1971.

(b) Nos.1, and 2 Boilers at Boiler House No. 4 are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, and 2 Boilers at Boiler House No. 4 comprise one existing affected source for the limited use liquid fuel subcategory as defined by 40 CFR 63.7506(b), because they meet the criteria in the definition in 40 CFR 63.7575 for the limited use liquid fuel subcategory.. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

(c) Nos.1, 2 and 3 Boilers at Boiler House No. 4 are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, 2 and 3 Boilers at Boiler House No. 4 comprise one existing affected source for the large gaseous fuel subcategory as defined by 40 CFR 63.7506(b), because it meets the criteria in the definition in 40 CFR 63.7575 for the large gaseous fuel subcategory. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

Turboblower Boiler House (TBBH)

(a) The New Source Performance Standards (NSPS) 40 CFR 60.40 through 60.49, Subpart D, Standards for fossil-fuel-fired Steam Generating Units for which construction commenced after August 17, 1971 were not included in this permit for the TBBH Boilers Nos. 1, 2 and 3. .Construction of TBBH Boilers Nos. 1, 2 and 3, with a heat input of 400 MMBtu per hour each commenced before August 17, 1971.

(b) Nos.1, 2, 3 and 5 Boilers at Turboblower Boiler House are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, 2, 3 and 5 Boilers at Turboblower Boiler House comprise one existing affected source for the limited use liquid fuel subcategory as defined by 40 CFR 63.7506(b), because they meet the criteria in the definition in 40 CFR 63.7575 for the limited use liquid fuel subcategory.. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

(c) Nos.1, 2, 3, 4A, 5 and 6 Boilers at Turboblower Boiler House are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The Nos.1, 2, 3, 4A, 5 and 6 Boilers at Turboblower Boiler House comprise one existing affected source for the large gaseous fuel subcategory as defined by 40 CFR 63.7506(b), because it meets the criteria in the definition in 40 CFR 63.7575 for the large gaseous fuel subcategory. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected sources after the effective date of 40 CFR 63, Subpart DDDDD, except when otherwise specified in 40 CFR 63 Subpart DDDDD. This rule is not yet published in the *Federal Register*. A copy of the signed, final rule is available at http://www.epa.gov/ttn/atw/boiler/boilerpg.html.

(d) The provisions of 40 CFR 60 Subpart - General Provisions, which are incorporated by reference in 326 IAC 12, apply to the for TBBH Boiler No. 4Aand TBBH Boiler No. 6, except when otherwise specified in 40 CFR 60 Subpart Db and Subpart D, respectively.

(e) The New Source Performance Standards (NSPS) 326 IAC 12 and 40 CFR 60.40b through 60.49b, Subpart Db, were included in this permit for the TBBH Boiler 4A. The heat input is greater than one hundred (100) MMBtu per hour m but less than two hundred fifty (250) MMBtu per hour and was modified after June 19, 1984.

(f) The New Source Performance Standards (NSPS) 326 IAC 12 and 40 CFR 60.40 through 60.49, Subpart D, Standards for fossil-fuel-fired Steam Generating Units for which construction commenced After August 17, 1971 was not included in this permit for TBBH Boiler No. 5 because, construction of TBBH Boilers No. 5, with a heat input of 450 MMBtu per hour commenced before August 17, 1971. See Section D.15 of this permit for detailed requirements.

(g) The New Source Performance Standards (NSPS) 326 IAC 12 and 40 CFR Part 60.40 through 60.49, Subpart D is included in this permit for TBBH Boiler No. 6. The heat input capacity is greater than two hundred fifty (250) MMBtu per hour and was modified after August 17, 1971. See Section D.15 of this permit for detailed requirements.

State Rule Applicability Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source has submitted a Preventive Maintenance Plan (PMP) on December 12, 1996. This PMP has been verified to fulfil the requirements of 326 IAC 1-6-33 (Preventive Maintenance Plan).

326 IAC 2-2 Prevention of Significant Deterioration (PSD) and 326 IAC 2-3 (Emission Offset)

This source is an existing major source with the potential to emit over 100 tons of pollutants per year.

326 IAC 2-6 Emission Reporting

This source is subject to 326 IAC 2-6 (Emission Reporting), because it is located in Lake County and has the potential to emit more than 2,500 tons of NOx and 250 tons of VOC per year. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period identified in 326 IAC 2-6.

326 IAC 5-1 Opacity Limitations

This source is subject to 326 IAC 5-1-2, except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations); opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Limitations for USS – Gary Works

The new Lake County PM_{10} Emission Limitations for USS – Gary Works State Implementation Plan (SIP) revision approved by .the U.S. EPA and became effective May 21, 2004 incorrectly states some PM_{10} emission limits in grains per dry standard cubic foot per minute (dscfm). The correct units for the emission limitations are grains per dry standard cubic foot (dscf). The correct PM_{10} Emission Limitations units of grains per dry standard cubic foot (dscf) are incorporated in this permit.

326 IAC 6-1-10.1(l) and 326 IAC 6-1-10.1(u) Continuous Compliance Plan

(a) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6-1-10.1 (p) through (r) or applicable procedures in the CCP.

(b) Pursuant to 326 IAC 6-1-10.1(u), the Permittee shall update the CCP, as needed, retain a copy any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP to IDEM, OAQ within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6-1-10.1, failure to submit a CCP, maintain all information required by the CCP at the source, or submit updates to a CCP is a violation of 326 IAC 6-1-10.1.

326 IAC 6-1-11.1 Lake County Fugitive Particulate Control Requirements

(a) Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Control Requirements), the particulate emissions from source wide activities shall meet the following requirements:

(1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(3) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%) three (3) minute average. This includes material transfer to the initial hopper of material processing facility as defined in 326 IAC 6-1-11.1(c) of material transfer for transportation within or outside the source property including, but not limited to the following:

(A) Transfer of slag product for use by asphalt plants
  (i) From a storage pile to a front end loader, and
  (ii) From a front end loader to a truck.
(B) Transfer of sinter blend for use at the sinter plant:
  (i) From a storage pile to a front end loader,
  (ii) From a front end loader to a truck, and
  (iii) From a truck to the initial processing point.
(C) Transfer of coal for use at a coal processing line:
  (i) From a storage pile to a front end loader, and
  (ii) From a front end loader to the initial coal processing line.

Compliance with any operation lasting less than three minutes shall be determined as an average of consecutive operations recorded at fifteen second intervals for the duration of the operation.

(4) The opacity of fugitive particulate emissions from slag and kish handling when transferring from pots and trucks shall not exceed twenty percent (20%) on a six minute average.

(5) The opacity of fugitive particulate emissions from continuous transfer of material onto or and out of storage piles shall not exceed ten percent (10%) on a three minute average.

(6) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. These limitations may not apply during periods, when application of fugitive particulate control measures is either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting opacity limitation was not reasonable given prevailing wind conditions.

(7) There shall be a zero (0) percent frequency of visible emission observations of a material during the in plant transportation of material by truck or rail at any time. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the in-plant transportation requirement.

(8) The opacity of fugitive particulate emissions from the in plant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(9) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(10) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(11) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(12) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

(13) The PM_{10} emissions from each material processing stack shall not exceed 0.022 grains per dry standard cubic foot and ten percent (10%) opacity standard.

(14) Fugitive particulate material from the material facilities except at a crusher in which a capture system is not used shall not exceed ten percent (10%) opacity.

(15) Fugitive particulate matter from a crusher in which a capture system is not user shall not exceed fifteen percent (15%) opacity.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on January 28, 2000.

326 IAC 6-1-11.2 Lake County Particulate Emissions: Contingency Measures

This source is subject to 326 IAC 6-1-11.2 (Lake County Particulate Matter Contingency Measures), because it is subject to the requirements of 326 IAC 6-1-11.1. Pursuant to this rule, the source shall comply with (h), (i), (k), (l), (m), (o), (p) and (q) of this rule.

326 IAC 6-3 Process Operations Particulate Limitations

The requirements of 326 IAC 6-3-2 are not included in this permit, because the limitations established by this rule are inconsistent with applicable limitations contained in 326 IAC 6-1 for Lake County sources. Therefore, 326 IAC 6-3 does not apply.

326 IAC 6-4 Fugitive Dust Emissions

This source is subject to the requirements of 326 IAC 6-4 and shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

326 IAC 7-4-1.1(c)(22)(K) through (M)

The source is subject to the requirements of 326 IAC 7-4-1.1(c)(22)(K) through (M) and shall comply with the following:

(a) All the facilities at US Steel - Gary Works are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(K) through (M), the total actual heat input from coke oven gas, coal, and fuel oil usage at all facilities operating shall not exceed the following:

(1) Two thousand seven hundred forty (2,740) million Btu per hour based on five hundred ten (510) million Btu per million cubic feet of coke oven gas,

(2) Twenty-six (26) million Btu per ton of coal, and

(3) One hundred fifty (150) million Btu per thousand gallons of fuel oil;

(4) The sulfur dioxide emission rate from coke oven gas, except at the Coke Battery Underfire Stacks Nos. 2, 3, 5 and 7 (Section D.2), and from fuel oil shall not exceed one and seven-hundredths (1.07) pounds per million Btu.

(b) A summary of the calculated sulfur dioxide emission rates in pounds per MMBtu and in pounds per hour, the types of fuel and actual fuel usage for each day and any violations, for each combustion unit, furnace boiler or process operation at each facility for each day during the calendar quarter shall be submitted to IDEM within thirty (30) days at the end of each calendar quarter.

(c) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a SIP revision. Once the State Implementation Plan (SIP) revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO2 limits and conditions within thirty (30) days.

State Rule Applicability - Individual Facilities

Coal Handling Operations

326 IAC 6-1-10.1(d)(36), 326 IAC 6-1-10.2(9) and 326 IAC 11-3-2(a) Lake County PM_{10} Emission Requirements

The No. 2 Coke Battery Precarbonization Lines A, B, and C, ESP stacks CH6034, CH6035 and CH6037 and No. 3 Coke Battery Precarbonization Lines A, B, and C, ESP Stacks CH6028, CH6029 and CH6031 are subject to the provisions of 326 IAC 6-1-10.1(d)(36), 326 IAC 6-1-

10.2(9) and 326 IAC 11-3-2(a).

Pursuant to 326 IAC 6-1-10.1(d)(36), 326 IAC 6-1-10.2(9) and 326 IAC 11-3-2(a) the PM_{10} emissions from these facilities shall not exceed as follows:

(a) The PM_{10} emissions from the No. 2 Coke Battery Precarbonization Lines A, B, and C, ESP stacks CH6034, CH6035 and CH6037 combined shall not exceed a total of 62.5 pounds per hour.

(b) The PM_{10} emissions from the No. 3 Coke Battery Precarbonization Lines A, B, and C ESP stacks CH6028, CH6029 and CH6031 combined shall not exceed a total of 62.5 pounds per hour.

326 IAC 6-1-2(a) Particulate Emissions Limitations

The Coal Car Bottom Thaw Shed, Coal Car Side thaw Station and the pet coke crusher used as a second coal crusher are subject to the provisions of 326 IAC 6-1-2 (a), because the source wide PM potential to emit (PTE) is greater than 100 tons per year. The emissions shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 6-1-10.2(c)(9) (A) and (B) Precarbonization Emission Requirements

(a) Pursuant to 326 IAC 6-1-10.2(c)(9)(A), the particulate emissions from precarbonization towers shall be limited by the emission limitations in 326 IAC 6-1-10.1(d).

(b) Pursuant to 326 IAC 6-1-10.2(c)(9)(B), the visible emissions from the precarbonization towers shall comply with the requirements set forth in 326 IAC 5.

326 IAC 11-3-2(a)(1) and (2) Coke Oven Batteries Emission Limitations - Precarbonization

(a) Pursuant to 326 IAC 11-3-2(a)(1), particulate emissions from precarbonization towers shall be limited by the emission limitations determined 326 IAC 6-1.

(b) Pursuant to 326 IAC 11-3-2(a)(2),), the visible emissions from any precarbonization unit shall comply with the requirements set forth in 326 IAC 5-1.

326 IAC 6-1-10.1(g)(3) and 326 IAC 6-1-10.2(9) Opacity Limitations

(a) Pursuant to 326 IAC 6-1-10.1(g)(3) and 326 IAC 6-1-10.2(9) continuous opacity monitors are to be installed and operated on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031. A compliance test protocol incorporated (May 16, 1997) by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996 is an alternative monitoring requirement for the Precarbonization Systems at Gary Coke Division, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031.

(b) Pursuant to a protocol incorporated (May 16, 1997) by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996, a PM_{10} test schedule in Condition. D.1.10 of this permit is the alternative monitoring requirement for the Precarbonization Systems at Gary Coke Division, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031, as required by 326 IAC 6-1-10.1(g)(3).

(c) Pursuant to Revised Source Testing Protocol for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively, in a letter dated June 29, 1998 the Permittee

shall conduct the operation of a single Precarbonization Line through two ESPs. In order for the testing to represent the worst case emissions, the Permittee shall operate a single precarbon line through its associated ESP line with the tie lines between ESPs closed during the test. The results of this testing will be considered in compliance if the average PM_{10} (filterable plus condensable) are less than 31.25 pounds per hour.

326 IAC 7-4-1.1 Sulfur Dioxide SO_2 Limitations

The Coal Car Bottom Thaw Shed (CHY00071) and the Coal Car Side Thaw Station (CHT00001), are not subject to the provisions of 326 IAC 7-4-1.1(a), because the potential to emit SO_2 is less twenty-five (25) tons or ten (10) pounds per hour.

Coke Batteries No. 2, 3, 5 and 7

326 IAC 6-1-10.1(d) (36), 326 IAC 6-1-10.2(8) and 326 IAC 11-3-2(i), Lake County PM_{10} Emission Requirements

The Nos. 2, 3, 5 and 7 Coke Battery underfiring stacks and Coke Batteries 5/7 baghouse stack CP6050 are subject to the provisions of 326 IAC 6-1-10.1(d)(36), 326 IAC 6-1-10.2(8) and 326 IAC 11-3-2(i),.

Pursuant to 326 IAC 6-1-10.1(d) (36), 326 IAC 6-1-10.2(8) and 326 IAC 11-3-2(i), The PM_{10} emissions from these facilities shall comply with the following:

(a) The PM_{10} emissions from the Coke Battery number 2 underfiring stack CP6040 shall not exceed 32.30 pounds per hour.

(b) The PM_{10} emissions from the Coke Battery number 3 underfiring stack CP6045 shall not exceed 25.50 pounds per hour.

(c) The PM_{10} emissions from the Coke Battery number 5 underfiring stack CP6049 shall not exceed 24.70 pounds per hour.

(d) The PM_{10} emissions from the Coke Battery number 7 underfiring stack CP6053 shall not exceed 21.30 pounds per hour.

(e) The PM_{10} emissions from the Coke Battery number 5/7 pushing emissions control baghouse shall not exceed 0.017 pound per ton coke produced and 1.28 pounds per hour.

326 IAC 6-1-10.2 Lake County PM_{10} Coke Battery Emission Requirements

The coke oven batteries Nos. 2, 3, 5 and 7 are subject to the provisions of 326 IAC 6-1-10.2. Coke Batteries Nos. 2, 3, 5 and 7 shall comply with the following:

(a) No visible emissions shall be permitted from more than ten percent (10%) of the observed coke oven doors on any coke oven battery within Lake County.

(b) The visible emissions from the coke oven batteries Nos. 2, 3, 5 and 7 charging operations shall comply with the following:

(1) No visible emissions shall be permitted from the charging system for more than a cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods.

(2) A Acharging system@, means the equipment required to add coal to a coke battery including a larry car, charge ports, jumper pipe and off take pipe.

(c) The emissions from the coke oven batteries Nos. 2, 3, 5 and 7 pushing operations shall comply with the following:

(1) The opacity emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins, shall not exceed twenty percent (20%).

(2) The opacity emissions during the pushing operation shall not exceed twenty percent (20%). The pushing shall be considered to begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower.

(3) The PM_{10} emissions from the pushing control devices: No. 2 and No. 3 Batteries Pushing Emissions Control Systems (PECS) CP3034 and CP3038 and No. 5 and No. 7 Coke Batteries Pushing Process Baghouse Stack CP6050 shall not exceed four-hundredths (0.04) pound per ton of coke pushed.

(d) The emissions from the coke oven batteries Nos. 2, 3, 5 and 7 quenching operations shall comply with the following:

(1) The quench water as applied to the coke shall not exceed one thousand five hundred (1,500) milligrams per liter of total dissolved solids (TDS).

(2) The Permittee shall submit the following information regarding its quenching operation in a CCP required to be submitted by 326 IAC 10.1(l):

(A) The source of quench water, for example, Lake Michigan water only, or a mixture of Lake Michigan water, spent quench water, process water and miscellaneous sources of non process water.

(B) The volume of quench water and proportion of each source of water.

(3) Pursuant to 326 IAC 6-1-10.2(c)(7)(C), all coke oven towers shall be equipped with baffles. Baffles shall cover ninety-five percent (95%) or more of the cross-sectional area of the exhaust vent or stack for straight quench towers and must be maintained in operable condition. For offset quench towers numbers 2 and 3 at US Steel, the number and arrangement of baffles in the tower shall be maintained as designed. Compliance with the quench tower baffle requirement shall be determined by comparison of the number and arrangement of baffles with the submitted plans.

(e) No visible emissions shall be permitted from more than three percent (3%) of the total charge port lids on operating ovens of a coke oven battery.

(f) The visible emissions from the Off take Piping shall comply with the following::

(1) No visible emissions shall be permitted from more than five percent (5%) of the total off take piping on any coke oven battery within Lake County.

(2) At no time, shall the visible emissions from any gooseneck cap opening exceed

twenty percent (20%) .

(3) An exclusion from the twenty percent (20%) gooseneck cap opacity limit shall be allowed for two (2) minutes after a gooseneck cap is opened.

(g) Visible emissions from coke oven batteries Nos. 2, 3, 5 and 7 gas collector mains shall comply with the following::

(1) No visible emissions shall be permitted from the gas collector mains.

(2) Caps on the collector main shall be exempt from requirement during maintenance.

326 IAC 6-1.10.2(b)(8) Lake County PM_{10} Coke Emission Limitations – Underfire Emissions

(a) Pursuant to 326 IAC 6-1.10.2(b)(8)(A), particulate emissions from the underfire stacks shall be limited by the emission limitations contained in 326 IAC 6-1-10.1(d).

(b) Pursuant to 326 IAC 6-1.10.2(b)(8)(B), visible emissions from underfire stacks shall comply with the requirements set forth in 326 IAC 5-1-2.

326 IAC 11-3-2 Coke Oven Battery Emission Limitations

The coke oven batteries Nos. 2, 3, 5 and 7 are subject to the provisions of 326 IAC 11-3-2, 326 IAC 6-1-10.2(8) and 326 IAC 6-1-10.1, because these facilities were constructed or modified prior to June 19, 1979. The Coke Batteries Nos. 2, 3, 5 and 7 shall each comply with the following requirements:

(a) The visible emissions from the charging system (including any open charge port, off take system, mobile jumper pipe or larry car) shall not be visible for more than a cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods.

(b) Visible emissions shall not be permitted from more than three percent (3%) of the total charge port lids.

(c) No visible emissions shall be permitted from more than five percent (5%) of the total off take piping on any coke oven battery within Lake County.

(d) No visible emissions shall be permitted from gas collector main on any coke oven battery within Lake County.

(e) Visible emissions shall not be permitted from more than ten percent (10%) of the total coke oven doors on any coke oven battery within Lake County.

(f) The coke oven batteries Nos. 2, 3, 5 and 7 pushing emissions requirements shall comply with the following:

(1) All coke oven batteries shall be equipped with a device capable of capturing and collecting coke-side particulate matter such that the effluent gas emissions contain no more than four-hundredths (0.04) gram per two (2.0) kilogram of coke pushed.

(2) Such devices shall be designed and operated in compliance with an operating

permit to collect ninety percent (90%) of the pushing emissions. If the construction and design of the device have been approved by the commissioner by granting the permit, the device, if operated properly in compliance with the permit conditions, will be assumed to be collecting ninety percent (90%) of the pushing emissions.

(g) The coke oven batteries Nos. 2, 3, 5 and 7 quenching emissions requirements shall comply with the following:

(1) Quench towers serving existing coke oven batteries shall have no visible emissions from the quenching of coke with the direct application of water to hot coke unless quenching is conducted under a tower equipped with efficient baffles to impede the release of particulates into the atmosphere. Efficient baffles are baffles taking the form of slats, louvers, screens, or other impediments placed in a configuration within a quench tower to force a change of direction and reduction of velocity of the steam plume to aid in the reduction of particulate matter emitted.

(2) The quench water makeup total dissolved solids content shall not exceed one thousand five hundred (1,500) milligrams per liter.

(h) The visible emissions and particulate emissions from the underfire stacks shall comply with the requirements of 326 IAC 5-1 and 326 IAC 6-1, respectively.

326 IAC 11-3-3 Coke Oven Identification

The coke oven batteries are subject to the provisions of 326 IAC 11-3-3, because these facilities were constructed or modified prior to June 19, 1979. The identity of each coke oven shall be maintained in such a manner that it is easily and readily visible from the topside and on each coke and push-side on every battery.

326 IAC 7-4-1.1(c)(22)(E) Sulfur Dioxide (SO_2) Limitations

(a) The Nos. 2, 3, 5 and 7 Coke Battery Underfiring Stacks (CP6040, CP6045, CP6049 and CP6043) are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(E). The SO_2 emissions from the Coke Battery underfiring stacks shall not exceed 1.3 pounds of SO_2 per MMBtu of heat input each.

(b) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

326 IAC 2-2 and 326 IAC 2-3 PSD and Emissions Offsets Nitrogen Oxide (NOx) Limitations

The coke oven battery coke oven gas supply line, natural gas jets (CPNGI001, CPNGI002 and CPNGO003) are subject to the provisions of the Significant Source Modification 089-12880-00121, issued July 26, 2001. The natural gas usage shall not exceed 178.7 million cubic feet (MMCF) injected through the natural gas jets per 12-consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-2 PSD and 326 IAC 2-3 Emissions Offsets for the modification not applicable.

326 IAC 6-1-10.1(g) (1) and 326 IAC 3-5-1(b) Continuous Opacity Monitors

The coke battery underfire stacks are subject to the provisions of 326 IAC 6-1-10.1(g) (1) and 326 IAC 3-5-1(b). Continuous opacity monitors are to be installed, operated and maintained on the Coke Battery underfiring stacks.

Coke By-Product Recovery Plant

326 IAC 6-1-2(a) Particulate Limitations

The Coke Oven Gas High Pressure Control System stack CG6077 is subject to the provisions of 326 IAC 6-1-2 (a), because the source wide particulate emissions are greater than 100 tons per year. The PM10 emissions from the Coke Oven Gas High Pressure Control System Stack CG6077 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot.

Coke Oven Gas (COG) Desulfurization Facility

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

The COG Desulfurization Facility Tail Gas Incinerator is subject to the provisions of 326 IAC 6-1-10.1(d)(36).

Pursuant to 326 IAC 6-1-10.1(d)(36), the PM_{10} emissions from the Coke Plant Desulfurization Facility Tail Gas Incinerator shall not exceed 0.13 pound per hour.

Coke Oven Gas (COG) Desulfurization Facility Downtime

Pursuant to the Agreed Order signed March 22, 1996, by US Steel and IDEM and amended May 1, 2001, the Coke Oven Gas Desulfurization Plant's down time shall not exceed nine hundred and fifty (950) hours per year.

Number 2 Coke Plant Boiler House

326 IAC 6-1-10.1 Lake County PM_{10} Emission Requirements

The Number 2 Coke Plant Boiler House Boilers No.1, CSS10155; No. 2 , CSS20156;Boiler No. 3, CSS60157; Boiler No. 4 , CSS40158; Boiler No. 5 , CSS50159; Boiler No.6 , CSS60160; Boiler No. 7, CSS70161 and Boiler No. 8, CSS80162 are subject to the provisions of 326 IAC 6-1-10.1(d)(36), the PM_{10} emissions from these facilities shall comply with the following:

(a) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boilers Nos. 1 and 2 stacks CS6060 and CS6061shall not exceed 0.003 pounds per MMBtu heat input and a total of 0.75 pound per hour.

(b) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boiler No. 3 stack S6062 shall not exceed 0.012 pound per MMBtu of heat input and 1.8 pounds per hour.

(c) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boilers No.4 and No.5 stack CS6063 shall not exceed 0.012 pound per MMBtu of heat input and 3.9 pounds per hour.

(d) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boiler No.6 stack CS6064 shall not exceed 0.012 pound per MMBtu of heat input and 2.0 pounds per hour.

(e) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boiler No. 7 Stack CS6065 shall not exceed 0.012 pound per MMBtu of heat input and 1.9 pounds per hour.

(f) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Boiler No. 8 stack CS6066 shall not exceed 0.012 pound per MMBtu of heat input and 2.9 pounds per hour.

(g) The PM_{10} emissions from the No. 2 Coke Plant Boiler House Lime Storage Silo baghouse LRS-1 shall not exceed 0.03 grains per dry standard cubic foot and 0.28 pound per hour.

326 IAC 7-4-1.1(c)(22)(D) Sulfur Dioxide (SO_2) Limitations

Boiler No. 1 (CSS10155), Boiler No. 2 (CSS20156), Boiler No. 3 Stack (CS6062), Boiler No. 4 Stack (CS6063), Boiler No. 5 Stack (CS6063), Boiler No. 6 Stack (CS6064), Boiler No. 7 Stack (CS6065) and Boiler No. 8 Stack (CS6066) are subject to the provisions of 326 IAC 7-4-1.1(c)(22). The SO_2 emissions from the Boilers shall comply with the following:

(a) Boiler Nos. 1 and 2, CSS10155, and CSS20156 shall burn natural gas only.

(b) The SO_2 emissions from each stack CS6062, CS6063 and CS6064 serving Boiler Nos. 3, 4, 5 and 6 shall not exceed 1.20 pounds of SO_2 per MMBtu of heat input.

(c) The SO_2 emissions from each stack CS6065 and CS6066 serving Boiler Nos. 7 and 8 shall not exceed 1.07 pounds of SO_2 per MMBtu of heat input.

(d) Only four (4) of No. 2 Coke Plant Boiler House Boilers can use coal or coke oven gas at any given time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.

(e) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

326 IAC 2-1.1-5 Nonattainment NSR Minor Limits

Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and in order to make the requirements of 326 IAC 2-1.1-5 Nonattainment NSR not applicable, the Permittee shall comply with the following:

(a) The NOx emissions from each boiler No. 1 through 8 shall not exceed 280 pounds per million cubic feet (MMCF) of natural gas . (This is the NOx emission factor in AP-42, Table 1.4-1 for uncontrolled boilers.)

(b) The NOx emissions from the temporary rental boiler shall not exceed 36.0 pounds per million cubic feet (MMCF) for natural gas,

(c) The NO_x emissions from each of the boilers No. 9 and No. 10 shall not exceed 129 pounds per million cubic feet (MMCF) of natural gas.

(d) The total NO_x emissions from boilers No. 1 through No. 10 and the temporary rental boiler at the coke plant boiler house (CPBH) shall be limited to less than 64.6 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly NO_x emissions shall be calculated using the following equation:

NO_x Emissions (tons/month) = (280 X + 36 Y + 129 Z) / 2,000

Where:

X = total monthly natural gas usage in boilers No. 1 through No. 8 (MMCF/month)
Y = monthly natural gas usage in the temporary rental boiler (MMCF/month)
Z = total monthly natural gas usage in boilers No. 9 and No. 10 (MMCF/month)

Therefore, the net NO_x emission increase from this modification is limited to less than 40 tons/yr and the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) are not applicable.

326 IAC 2-2 PSD Minor Limits 326 IAC 2-2

Pursuant to Significant Source Modification 089-19678-00121, issued October 29, 2004 and in order to make the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall limit the total natural gas usage from boilers No. 1 though No. 10 and the temporary rental boiler to less than 2,550 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.

This is equivalent to 9.69 tons/yr of PM10 emissions and 107 tons/yr of CO emissions from boilers No. 1 through No. 10 and the temporary rental boiler. The net emission increases from this modification are limited to less than 15 tons/yr for PM10 and less than 100 tons/yr for CO. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

Sinter Plant

326 IAC 2-2 and 326 IAC 2-3 Prevention of Significant Deterioration (PSD) and Emissions Offset Limitations

The sinter strand natural gas reheat burners (ISB001, ISB002 and ISB003) are subject to the provisions of the significant source modification 089-12880-00121, issued July 26, 2001. The sinter strand natural gas reheat burners shall comply with the following:

(a) The usage of natural gas shall be less than 95.5 million cubic feet (MMCF) or usage of coke oven gas shall be less than 1, 637.4 MMCF per 12- consecutive month period, with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-2 PSD and 326 IAC 2-3 Emission Offset not applicable for the modification.

(b) A summary of the natural gas and coke oven gas usage in the Sinter Strand Windbox recirculating burners per 12-consecutive month period with compliance demonstrated at the end of each month shall be submitted quarterly.

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

The No. 3 Sinter Plant individual facilities are subject to the provisions of 326 IAC 6-10.1(d)(36) and the PM_{10} emissions requirements for each facility shall comply with the following:

(a) The Number 3 Sinter Plant Strand Wind box Gas Cleaning System stacks (IS6198 and IS 6199) PM_{10} emissions shall not exceed 0.0200 grains of per dry standard cubic foot and a total of 200.0 pounds per hour.

(b) The Cold Screen Station Baghouse Stack (IS6207) PM_{10}emissions shall not exceed 0.0100 grains per dry standard cubic foot and 10.89 pounds per hour.

(c) The S1/S2 Conveyor System Baghouse Stack (IS6206) PM_{10} emissions shall not exceed 0.0100 grains per dry standard cubic foot and 1.29 pounds per hour.

(d) The three (3) Sinter Coolers Stacks (IS6203, IS*6204* and IS6205) PM_{10} emissions shall not exceed 0.030 grains per dry standard cubic foot and a combined total of 272.2 pounds per hour.

(e) The Discharge Ends Area Baghouse Stacks (IS6200, IS6201 and IS6202) emissions shall not exceed 0.0100 grain per dry standard cubic foot and a combined total of 20.57pounds per hour.

(f) The Blended Material Storage Bins Building Baghouse Stack (IS6197) PM_{10} emissions shall not exceed 0.010 grain per dry standard cubic foot and 0.43 pound per hour.

326 IAC 7-4-1.1(c)(22)(I) Sulfur Dioxide (SO_2) Limitations

(a) The No. 3 Sinter Plant Strand Windbox Gas Cleaning System stacks IS6198 and IS6199 are subject to the provisions of the Agreed Order signed March 22, 1996 by US Steel and IDEM. In accordance with the agreed order, the SO_2 emissions from each stack shall not exceed 100.0 pounds per hour when the coke oven gas desulfurization plant is in operation.

(b) Pursuant to the Agreed Order signed March 22, 1996, amended May 1, 2001, SO_2 emissions from each Sinter Plant Strand Windbox gas cleaning systems stack IS6198 and IS6199 shall not exceed 130.0 pounds of SO_2 per hour when the coke oven gas desulfurization plant experiences downtime. Such a limit shall only be applicable only during the coke oven gas desulfurization plant=s down time. The coke oven gas desulfurization plant's down time shall not exceed nine hundred and fifty (950) hours per year.

(c) The three (3) Sinter Strands Windbox units, ISS10379, ISS20380 and ISS30381 are subject to the provisions in 326 IAC 7-4-1.1(c)(22)(I), the SO_2 emissions shall not exceed 1.0 pounds per ton of sinter produced.

(d) The sinter lines are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(I), in that only two (2) of three (3) sinter lines may operate at any one time.

(e) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

326 IAC 8-13-3 Volatile Organic Compounds (VOC)

The No.3 sinter strand windbox is subject to the provisions of 326 IAC 8-13-3(b) and (c), because the facility is located in Lake County and the source is an integrated iron and steel mill. The exhaust gas VOC emissions limits are as follows:

(a) During the period May 1 through September 30, the total VOC emissions (the seasonal cap) shall not exceed 256,948 pounds of VOC emissions. This is based on the following

equation:

VOC (pounds) = 0.25 lb of VOC per ton of sinter produced x average daily sinter production rate of 6717.59 tons per day x 153 days

(b) Except as provided in 326 IAC 8-13-3(b)(3), on any day from May 1 through September 30, the sinter plant windbox exhaust VOC emissions (the maximum daily limit) shall not exceed 2,096 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate 8384 tons per day

(c) On any day from May 1 through September 30 when ozone levels in Lake, Porter, or LaPorte Counties are expected to exceed the national ambient air quality standard for ozone (either one (1) hour or eight (8) hour), the sinter plant windbox exhaust VOC emissions (the lower daily limit) shall not exceed 1,679 pounds of VOC emissions. This is based on the following equation:

VOC (pounds per day) = 0.25 lb of VOC per ton of sinter produced x maximum actual daily sinter production rate of 6716 tons per day

A high ozone level day shall be predicted by the Permittee in accordance with a high ozone day action plan developed by the source and submitted to the IDEM - OAQ as part of the report required by 326 IAC 8-13-4(b).

(d) The maximum actual daily sinter production (tons per day) is equal to the maximum actual sinter produced on an operating day during the period from 1990 to 1997.

(e) The average daily sinter production equals either of the following:

(1) The annual average sinter production in tons divided by the annual average number of operating days in the period 1990 through 1994.

(2) In the event sinter production in 1990 to 1994 is not representative of the current sinter production due factors, such as, but not limited to, routine repair, maintenance, or replacement, a source may elect to use the average actual sinter production in tons per day during a calendar year up to the year 1997, which represents current sinter production. The averaging period must include and not be less than the ozone season (May 1 through September 30).

(f) From October 1 through April 30, sinter plant windbox exhaust gas VOC emissions shall be limited to thirty-six hundredths (0.36) pound per ton of sinter produced. The limit shall be complied with on an operating day average basis.

(g) Pursuant to 326 IAC 8-13-4(b)(8) and an Ozone Action Plan, the Permittee shall do the following:

(1) Use a VOC continuous emissions monitoring system consistent with the continuous emissions monitoring requirements specified in 326 IAC 8-13-8 to

ensure compliance with the applicable emission limits.

(2) Control the sinter burden blend of materials placed on the sinter strand to produce sinter) oil and grease content by regulating the amount of mill scale in the sinter burden. Sinter burden will be blended in the blending piles to a specified percent of mill scale range.

(3) Control mill scale oil and grease content before its removal from scale pits for use at the sinter plant. Control will be achieved by removing a portion of the oil and grease at the scale pits to help achieve compliance with the emission limits in 326 IAC 8-13-3. Removal may consist of skimming, vacuuming or other methods capable of reducing the amount of oil and grease becoming entrained on scale.

(4) Provide timely VOC emissions data to sinter plant operators during production. This information will be used to reduce the likelihood of an exceedance. In the event VOC emissions approach or exceed limits, sinter production will be reduced, burden characteristic will be changed, sinter process equipment operations will be modified or some other activity determined to be effective and that helps prevent an exceedance or reduces the length of exceedance.

(5) To predict high ozone days: the Permittee is a participant in IDEM's Partners for Clean Air Program and receives notification of Ozone Action Days from IDEM - OAQ. The Permittee will initiate the ozone action plan. A high ozone level day shall be predicted by the Permittee by using notification from IDEM, OAQ of an ozone action day.

Blast Furnaces

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

Blast furnaces Nos.4, 6, 8 and 13 are subject to the provisions of 326 IAC 6-1-10.1(d)(36). The PM_{10} emissions from these facilities shall comply with the following:

(a) The PM_{10} emissions from the Blast Furnace No. 4 stoves stack IA6160 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(b) The PM_{10} emissions from the Blast Furnace No. 6 stoves stack IB6168 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(c) The PM_{10} emissions from the Blast Furnace No. 8 stoves stack IC6175 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.

(d) The PM_{10} emissions from the Blast Furnace No. 13 stoves stack ID6184 shall not exceed 0.029 pound per MMBtu of heat input and a total of 20.40 pounds per hour.

(e) The PM_{10} emissions from the Number 13 Blast Furnace Casthouse Baghouse stack ID6187shall not exceed 0.0090 pound per MMBtu of heat input and 38.57 pounds per hour.

326 IAC 6-1-2(a) Particulate Emissions Limitations

The particulate emissions from the roof monitors are subject to the provisions of 326 IAC 6-1-2(a), because the source wide potential to emit particulate is greater than 100 tons per year. The

particulate emissions from the roof monitors, IA6010, IB6011, IC6012 and ID6013 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 7-4-1.1(c)(22) Sulfur Dioxide (SO_2)

Pursuant to 326 IAC 7-4-1.1(c)(22)(J), the SO_2 emissions from the No. 4 Blast Furnace Stoves IAST0360, No. 6 Blast Furnace Stoves IBST0361, No. 8 Blast Furnace Stoves ICST0362 and No. 13 Blast Furnace Stoves IDST0359 shall comply with the following:

(a) The SO_2 emissions from each Blast Furnace Nos. 4, 6, 8 and 13 stoves sack IA6160, IB6168, IC6175 and ID6184 shall not exceed 0.002 pound per MMBtu of heat input.

(b) Only two (2) out of three (3) stoves at each of the Blast Furnace Nos. 4, 6 and 8 shall fire fuel simultaneously.

(c) Only three (3) out of four (4) stoves at Blast Furnace No. 13 shall fire fuel simultaneously.

(d) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

326 IAC 9-1-2(2) Carbon Monoxide (CO) Limitations

(a) The blast furnace No. 13 IDBF0369 is subject to the provisions of 326 IAC 9-1-2(2), because Blast Furnace No.13 commenced operation after March 21, 1972. Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. 13 Blast Furnace IDBF0369, waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

(b) The provisions of 326 IAC 9-1-2(2), are not included in this permit for the blast furnaces Nos.4, 6 and 8. The Blast Furnaces Nos.4, 6 and 8 commenced operation before March 21, 1972.

Number 1 BOP Shop

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

The Basic Oxygen Process Furnace Operations individual facilities are subject to the provisions of 326 IAC 6-1-10.1(d)(36). The individual facilities shall comply with the following:

(a) The PM_{10} emissions from the No. 1 BOP Shop Hot Metal Desulfurization Baghouse Stack SS6100 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 15.0 pounds per hour.

(b) The PM_{10} emissions from the No. 1 BOP Shop Gas Cleaning System stacks SS6102 and SS6103 shall not exceed 0.011 grains per dry standard cubic foot of exhaust air and a

total of 46.0 pounds per hour.

(c) The PM_{10} emissions from the No. 1 BOP CASBELL/OB Lancing Baghouse stack SS6104 shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 5.10 pounds per hour.

326 IAC 6-1-2(a) Particulate Emissions Limitations

The particulate emissions from the roof monitors are subject to the provisions of 326 IAC 6-1-2(a) because the source wide potential to emit particulate is greater than 100 tons per year. The particulate emissions from the roof monitors SS6636, SS6637and SS6638 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 6-1-10.1(e) Opacity Limitations

The Number 1 Basic Oxygen Process Shop individual operations are subject to the provisions of 326 IAC 6-1-10.1(e). The individual facilities shall comply with the following::

(a) Opacity emissions from the Hot Metal Desulfurization baghouse Stack SS6100 shall not exceed five percent (5%) fort any, three (3) minute average.

(b) Opacity emissions from the BOP Furnace Operations Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed twenty percent (20%) for any, six (6) minute average.

(c) Opacity emissions from the Number 1 BOP Shop Roof Monitor SS6636 Operations shall achieve and maintain an opacity emission limitation of twenty percent (20%) for any three (3) minute average.

326 IAC 7-4-1.1 Hot Metal Processing Facility Limitations

Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004 the Permittee sent in an application on April 29, 2004 to include the Number 1 BOP Hot metal desulfurization SO_2 limitations shall comply with the following:

(a) The SO_2 emissions from the Hot Metal processing facilities No. 1 and No. 2 as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming.

(b) The SO_2 emissions from the Hot Metal processing facilities No. 1 and No. 2 as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

326 IAC 9-1-2(2) Carbon Monoxide (CO) Limitations

The No. 1 basic oxygen furnace operation is not subject to the provisions of 326 IAC 9-1-2(c) because the BOF commenced operation before March 21, 1972.

Number 2 Q-BOP Shop

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emissions Requirements

The PM_{10} emissions from the Number 2 Q-BOP Shop Operations individual facilities are subject to

the provisions of 326 IAC 6-1-10.1(d)(36)and each facility shall comply with the following:
.

(a) The PM_{10} emissions from the Number 2 Q-BOP Hot Metal Desulfurization Baghouse stack NS6144 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 13.0 pounds per hour.

(b) The PM_{10} emissions from the Number 2 Q-BOP Secondary Emissions Baghouse stack NS6123 shall not exceed 0.007grains per dry standard cubic foot of exhaust air and 27.0 pounds per hour.

(c) The PM_{10} emissions from the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 shall not exceed 0.0153 grains per dry standard cubic foot of exhaust air and a total of 44.40 pounds per hour.

(d) The PM_{10} emissions from the Number 2 Q-BOP North Flux Handling Baghouse stack NS6626 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 1.8 pounds per hour.

(e) The PM_{10} emissions from the Number 2 Q-BOP South Flux Handling Baghouse stack NS6625 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 1.8 pounds per hour.

(f) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 1 Hot Fume Exhaust Baghouse stack NS6146 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.1 pounds per hour.

(g) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 2 Hot Fume Exhaust Baghouse stack NS6147 shall not exceed 0.007 grains per dry standard cubic foot of outlet exhaust air and 5.1 pounds per hour.

(h) The PM_{10} emissions from the Number 2 Q-BOP LMF Number 3 Hot Fume Exhaust and Material Handling Baghouse stack NS6148 shall not exceed 0 .0070 grains per dry standard cubic foot of exhaust air and 2.7 pounds per hour.

(i) The PM_{10} emissions from the Number 2 Q-BOP LMF Numbers 1 and 2 Material Handling Baghouse Stack NS6055, shall not exceed 0 .007 grains per dry standard cubic foot of exhaust air and 3.83 pounds per hour.

(j) The PM_{10} emissions from the Number 2 Q-BOP RH-degasser Slag Conditioning Baghouse Stack, shall not exceed 0 .007 grains per dry standard cubic foot of exhaust air and 5.49 pounds per hour.

326 IAC 6-1-2(a) Particulate Emissions Limitations

The particulate emissions from the Number 2 Q-BOP roof monitors are subject to the provisions of 326 IAC 6-1-2(a), because the source wide PTE of particulate is greater than 100 tons per year. The particulate emissions from the roof monitors NS6631, NS6632, NS6633 and NS6634 shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 6-1-10.1(e) Opacity Limitations

The Number 2 Q-BOP Shop operations individual facilities are subject to the opacity limits in 326 IAC 6-1-10.1(e), because these facilities are located in Lake County. The opacity limits for these facilities are as follows:

(a) Opacity from the Number 2 Q-BOP Hot Metal Desulfurization Stations Baghouse stack NS6144 shall not exceed five percent (5%) opacity, three (3) minute average.

(b) Opacity from the Number 2 Q-BOP Secondary Baghouse stack NS6123 shall not exceed five percent (5%) opacity, three (3) minute average.

(c) Opacity from the Number 2 Q-BOP Gas Cleaning system Stacks NS6124 and NS6125 shall not exceed twenty percent (20%) opacity, six (6) minute average.

(d) Opacity from the Number 2 Q-BOP LMF No.1 Hot Fume Exhaust Baghouse Stack NSS6146 shall not exceed five percent (5%) opacity, three (3) minute average.

(e) Opacity from the Number 2 Q-BOP LMF No.2 Hot Fume Exhaust Baghouse Stack NS6147 shall not exceed five percent (5%) opacity, three (3) minute average.

(f) Opacity from the Number 2 Q-BOP LMF Nos. 1 and 2 Material Handling Baghouse Stack NS3052 shall not exceed five percent (5%) opacity, three (3) minute average.

(g) Opacity from the Number 2 Q-BOP Roof Monitor NS 6632 shall not exceed twenty percent (20%) opacity, three (3) minute average.

326 IAC 7-4-1.1 Hot Metal Processing Facility Limitations

Pursuant to the U.S. EPA Administrative Consent Order, issued January 2, 2004, the Permittee sent in an application on April 29, 2004 to include the Number 2 Q-BOP Hot metal desulfurization SO_2 limitations shall comply with the following:

(a) The SO_2 emissions from the Hot Metal processing facilities two hot metal desulfurization stations and mixers as measured during all hot metal processing activities shall not exceed 0.05 pound per ton of hot metal. Hot metal processing will include hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming.

(b) The SO_2 emissions from the Hot Metal processing facilities: two hot metal desulfurization stations and mixers as measured during hot metal desulfurization reagent injection only shall not exceed 0.01 pound per ton of hot metal.

326 IAC 9-1-2(2) Carbon Monoxide (CO) Limitations

The basic oxygen furnace operations (BOF) are subject to the provisions of 326 IAC 9-1-2(2), because the BOF processes commenced operation after March 21, 1972. Pursuant to 326 IAC 9-1-2(2), emissions of carbon monoxide shall be limited as follows for ferrous metal smelters. The Permittee shall not operate Number 2 Q-BOP basic oxygen steel furnace, having a capacity of ten (10) tons per hour or more process weight, unless the waste gas stream is burned in a direct-flame afterburner.

Hot Rolling Mill

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emissions Requirements

The 84” Hot Strip Mill Continuous Reheat Furnaces Nos. 1, 2, 3 and 4 and Waste Heat Boilers Nos. 1 and 2 are subject to the provisions of 326 IAC 6-1-10.1(d). These individual facility PM_{10} emissions shall comply with the following:

(a) The PM_{10} emissions from the 84" Hot Strip Mill Reheat Furnaces Nos. 1, 2, 3 and 4, RM6500, RM6501, RM6502 and RM 6503 shall not exceed 0.017pounds per MMBtu of heat input and a total of 40.80 pounds per hour.

(b) The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 1 Stack HB6504 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

(c) The PM_{10} emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 2 Stack HB6505 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.

326 IAC 7-4-1.1(c)(22)(G) Sulfur Dioxide (SO_2) Limitations

(a) The 84" Hot Strip Mill Continuous Reheat Furnace Nos.1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(G)(i -iv),. These facilities have SO_2 requirements as follows:

(1) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven (477) million Btu per hour for Waste Heat Boiler 1, RB1B0508 and Furnaces 1 and 2, RMF10500 and RMF20501 combined.

(2) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of five hundred seven (507) million Btu per hour for Waste Heat Boiler 2, RB2B0509 and Furnaces 3 and 4, RMF30502 and RMF40503 combined.

(3) The remainder of the actual heat input shall be obtained by burning natural gas.

(4) Total actual heat input shall not exceed four hundred forty (440) million Btu per hour for each furnace, one hundred seventy (170) million Btu per hour for Waste Heat Boiler 1, RB1B0508, and two hundred (200) million Btu per hour for Waste Heat Boiler 2, RB2B0509.

(5) The Waste Heat Boiler 1, RB1B0508 and Continuous Reheat Furnaces1and 2, RMF10500, RMF20501 shall not exceed 511.8 pounds of SO_2 per hour.

(6) The Waste Heat Boiler 2, RB2B0509 and Continuous Reheat Furnaces 3 and 4 RMF30502 and RMF40503 shall not exceed a total of 543.9 pounds of SO_2 per hour.

(7) Fuel supplied to the continuous reheat furnaces (coke oven gas, fuel oil, and natural gas) shall not result in a sulfur dioxide emission rate exceeding four hundred forty-seven thousandths (0.447) pounds per million Btu actual heat input.

(b) Upon completion of rule changes to 326 IAC 7-4-1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the SIP revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

North and South Sheet Mills

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

The Electro-galvanizing Line (EGL) Boiler House is subject to the provisions of 326 IAC 6-1-

10.1(d)(36).

Pursuant to 326 IAC 6-1-10.1(d)(36), the PM_{10} emissions from the EGL Boiler House shall not exceed 0.0033 pounds per MMBtu of heat input and a total of 0.13 pound per hour.

326 IAC 6-1-2(a) Particulate Emissions Limitations

The particulate emissions from the North Sheet Mill 5-Stand Cold Reduction Mill and the South Sheet Mill: No. 6 East Galvanize Line are subject to the provisions of 326 IAC 6-1-2(a), because the source wide potential to emit (PTE) of particulate is greater than 100 tons per year. The particulate emissions from the North Sheet Mill 5-Stand Cold Reduction Mill Stack H56527 and the South Sheet Mill: No. 6 East Galvanize Line Stack H66516 shall not exceed three-hundreths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 2-3 Emissions Offset (NOx) Limitations

The three (3) hydrogen atmosphere batch annealing furnaces are subject to the provisions of construction permit CP089-8606-00121, issued October 20, 1997. The natural gas usage in these facilities is limited to 37.2 million cubic feet (MMCF) per 12 consecutive month period with compliance demonstrated at the end of each month. This production limitation is equivalent to NOx emissions of 2.64 tons per 12 consecutive month period with compliance demonstrated at the end of each month. Therefore, the Emission Offset rule, 326 IAC 2-3, does not apply.

Tin Mill Operations

326 IAC 6-1-2(a) Particulate Emissions Limitations

The following facilities are subject to the provisions of 326 IAC 6-1-2(a), because the source wide potential to emit particulate is greater than 100 tons per year. The particulate emissions shall not exceed three-hundredths (0.03) grain per dry standard cubic feet (gr/dscf) from the following units:

(a) 6-Stand Cold Reduction Mill Stack TR6575,

(b) One (1) Double Reduction Mill Stack TD6595, and

(c) No. 1 Tin Free Steel Line Chemical Treatment Rinse Stack TF6597.

326 IAC 7-4-1.1 Sulfur Dioxide (SO_2) Limitations

The No. 1 Annealing Furnace (T1AF0794) and No. 2 Annealing Furnace (T2AF0799), the 4-Stack ABox@ Annealing Furnaces (TXAF0765 through TXAF0769) and the Tin Anode Caster are subject to 326 IAC 7-4-1.1(a). These facilities shall only burn natural gas.

No. 4 Boiler House Boilers

326 IAC 6-1-10.1(d)(36) Lake County PM_{10} Emission Requirements

The No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks (O46268, O46269 and O46270) are subject to the provisions of 326 IAC 6-1-10.1(d)(36).

Pursuant to 326 IAC 6-1-10.1(d)(36), the PM_{10} emissions from the Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall comply with the following:

(a) The PM_{10} emissions from the Number 4 Boiler House Boilers, when one or two boilers are

operating shall not exceed 0.054 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.

(b) The PM_{10} emissions from the Number 4 Boiler House Boilers, when three boilers are operating shall not exceed 0.036 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.

326 IAC 7-4-1.1(c)(22)(B) Sulfur Dioxide (SO_2) Limitations

(a) The No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks (O46268, O46269 and O46270) are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(B). The SO_2 emissions from each of the Boilers Nos. 1, 2 and 3 shall not exceed 0.219 pounds per MMBtu of heat input.

(b) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan (SIP) revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

Turboblower Boiler House (TBBH) Boilers

326 IAC 6-1-10.1(d) (36) Lake County PM_{10} Emission Requirements

The emissions from the TBBH Boilers Nos. 1, 2, 3, 4 A, 5 and 6 Stacks (OT6271, OT6272, OT6273, OT6274, S-1, OT6275 and TBBH-6) are subject to the provisions of 326 IAC 6-1-10.1(d)(36). The PM_{10} emissions from these facilities shall comply with the following:

(a) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when four boilers are operating, shall not exceed 0.037pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(b) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when three boilers are operating, shall not exceed 0.050 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(c) The PM_{10} emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when one or two boilers are operating, shall not exceed 0.074 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.

(d) The PM_{10} emissions from the TBBH Boiler No.4A stack OT6274 shall not exceed 0.012 pound per MMBtu of heat input each and 2.9 pounds per hour.

(e) The PM_{10} emissions from the TBBH Boiler No. 6 Stack OT6276 shall not exceed 0.039 pound per MMBtu of heat input and 27.80 pounds per hour.

326 IAC 7-4-1.1(c)(22)(A) Sulfur Dioxide (SO2) Limitations

(a) The TBBH Boilers Nos. 1, 2, 3, 4A, 5 and 6 stacks OT6271, OT6272, OT6273, S-1, OT6275 and TBBH-6 are subject to the provisions of 326 IAC 7-4-1.1(c)(22)(A),. The SO_2 emissions from each facility shall not exceed 0.269 pounds per MMBtu of heat input.

(b) Upon completion of rule changes to 326 IAC 7-4.1.1(c)(22), IDEM will submit the changes

to the U.S. EPA as a State Implementation Plan (SIP) revision. Once the State Implementation Plan (SIP) revision is approved by the U.S. EPA, the Permittee may request a modification of the Part 70 permit to incorporate the revised SO_2 limits and conditions within thirty (30) days.

326 IAC 2-2 and 326 IAC 2-3 PSD and Emission Offset Nitrogen Oxides (NOx Limitations

TBBH Boiler No. 6 Stack (TBBH-6) is subject to the provisions of Minor Source Modification 089-10160-00121 issued, January 13, 2000, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) to limit the potential to emit NOx emissions below forty (40) tons per year. The NOx emissions from this facility are limited as follows:

(a) Boiler No. 6 NOx emissions shall not exceed 0.14 pounds of NOx per MMBtu of heat input.

(b) When combusting natural gas the usage shall not exceed 1,059.7 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit will also preclude the Permittee from the requirement to install a continuous emissions monitor (CEM) for NOx as outlined in Condition D.15.12.

(c) Blast furnace gas and natural gas shall be the only fuels combusted in TBBH Boiler No. 6, unless the Permittee receives prior approval from IDEM, OAQ to combust coke oven gas or fuel oil.

These limitations will ensure that the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) do not apply.

Fugitive Dust Sources

326 IAC 6-1-11.1 Lake County Fugitive Particulate Matter Control Requirements

The facilities and operations are subject to the provisions of 326 IAC 6-1-11.1, because they have the potential to emit five (5) tons per year of fugitive particulate matter in the atmosphere in Lake County. Compliance with the opacity limits specified in Section C-Fugitive Dust Emissions is to be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP). If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval. The Permittee submitted a revised Fugitive Dust Control Plan on January 28, 2000.

Insignificant Activities - Specifically regulated

326 IAC 6-1-2(a) Particulate Emissions Limitation

The particulate emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents are subject to the provisions of 326 IAC 6-1-2(a), because the source wide PTE of particulate is greater than 100 tons per year. The particulate emissions from these facilities shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 8-3-2 Volatile Organic Compounds (VOC)

A cold cleaning operation is subject to the provisions of 326 IAC 8-3-2, because it has existed as of January 1, 1980 and is located in Lake County which have potential emissions of one hundred (100) tons per year or greater of VOC. The Cold Cleaning Operation shall meet the following requirements:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 Volatile Organic Compounds (VOC)

(a) A cold cleaner degreaser operation without remote solvent reservoirs is subject to the provisions of 326 IAC 8-3-5(a), because it has existed since January 1, 1990 and is located in Lake County. The Cold Cleaner Degreaser Operation and Control is to meet the following requirements:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) The Cold Cleaner Degreaser Operation is subject to 326 IAC 8-3-5(b), because construction commenced after July 1, 1990 and it is located in Lake County. The Cold Cleaner Degreaser Operation and Control is to meet the following operating requirements:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 8-9-1 Volatile Organic Liquid Storage Vessels

This source is subject to the provisions of 326 IAC 8-9-1(a) and (b) (Volatile Organic Liquid Storage Vessels), on and after October 1, 1995, because the source has stationary vessels used to store volatile organic liquids (VOL) that are located in Lake County with a capacity of less than thirty nine thousand (39,000) gallons. The source is subject to the reporting and record keeping requirements of this rule. The VOL storage vessels are exempted from all other provisions of this rule.

Testing Requirements

Facility	Pollutant	Frequency

Facility	Pollutant	Frequency
No. 2 Coke Battery Precarbonization Lines A, B, and C, ESP stacks CH6034, CH6035 and CH6037 and No. 3 Coke Battery Precarbonization Lines A, B and C , ESP stacks CH6028, CH6029 and CH6031	PM_{10},	Pursuant to the protocol issued) by IDEM May 16, 1997, incorporated as Exhibit C of the Agreed Order issued March 22, 1996, this performance test schedule is the alternative monitoring requirement for the Precarbonization Systems at Gary Coke Division, in lieu of installing and operating Continuous Opacity Monitors (COMs) on the six (6) Precarbon ESP stacks CH6034, CH6035, CH6037, CH6028, CH6029 and CH6031, as required by 326 IAC 6-1-10.1(g)(3). Pursuant to the protocol issued by IDEM May 16, 1997, incorporated as Exhibit C of the Agreed Order issued March 22, 1996 the Permittee shall conduct the performance test for Particulate Matter, to demonstrate compliance by measuring combined filterable and condensable emissions utilizing Method 5 and Method 202 of 40 CFR 60 Appendix A or other methods as approved by the Commissioner. Pursuant to Revised Source Testing Protocol for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively, in a letter dated June 29, 1998 the Permittee shall conduct the operation of a single Precarbonization Line through two ESPs. In order for the testing to represent the worst case emissions, the Permittee shall operate a single precarbon line through its associated ESP line with the tie lines between ESPs closed during the test. The results of this testing will be considered in compliance if the average PM_{10} (filterable plus condensable) are less than 31.25 pounds per hour. This test protocol modification reflects the change in operations of ESPs immediately after the precarbonization line returns from the “stand by” mode which results in decreased ESP collection efficiency. Pursuant to a protocol dated May 16, 1997 incorporated by IDEM, as Exhibit C of the Agreed Order issued March 22, 1996, for Nos. 2 and 3 Precarbonization Lines for Coke Batteries No. 2 and 3, respectively The Permittee shall conduct performance test in accordance with (b) and (c) above for PM_{10} emissions within a period of six)(6) months of last compliant test.; This performance test shall be repeated within a period of six (6) months of the date of the last compliant test for the life of the precarbonization lines. All tests shall be performed in accordance with

Facility	Pollutant	Frequency
		Section C – Performance Testing.

Facility	Pollutant	Frequency
No. 2 Coke Battery underfiring stack CP6040	PM_{10} SO_2	Once every 2 ½ years SO2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 3 Coke Battery underfiring stack CP6045	PM_{10} SO_2	Once every 2 ½ years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 5 Coke Battery underfiring stack CP6049	PM_{10} SO_2	Once every 2 ½ years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 7 Coke Battery underfiring stack CP6053	PM_{10} SO_2	Once every 2 ½ years SO2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Nos. 5 and 7 Coke Batteries Pushing Baghosue Stack CP6050	PM_{10}	Once every 5 years
Coke Plant Boiler House Boiler No. 1 stack CS6060	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boiler No. 2 stack CS6061	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boiler No. 3 stack CS6062	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boilers No. 4 and 5 stack CS6063	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boiler No. 6 stack CS6064	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boiler No. 7 stack CS6065	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Coke Plant Boiler House Boiler No. 8 stack CS6066	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 3 Sinter Plant Sinter Strand Windbox Gas Cleaning Stacks IS6198 and IS6199	PM_{10}, SO_2	Once every 2 2 years Once every 2 2 years
No. 3 Sinter Plant Sinter Strand Discharge Ends Area Baghouses Stacks IS6200, IS6201 and IS6202	PM_{10}	Once every 5 years
No. 3 Sinter Plant Sinter Cooler Stacks IS6203, IS6204 and IS6205	PM_{10}	Once every 2 ½ years
Blast Furnace No. 4 Stoves stack IA6160	PM_{10} SO_2	Once every 2 2 years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Blast Furnace No. 6 Stoves stack IB6168	PM_{10} SO_2	Once every 2 2 years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
Blast Furnace No. 8 Stoves stack IC6175	PM_{10} SO_2	Once every 2 2 years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.

Facility	Pollutant	Frequency
Blast Furnace No. 13 Stoves stack ID6184	PM_{10} SO_2	Once every 2 2 years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 13 Blast Furnace Cast house Baghouse stack ID6187	PM_{10}	Once every 2 2 years
Number 1 BOP Hot Metal Desulfurization Baghouse stack SS6100	PM_{10}	Once every 5 years
Number 1 BOP Gas Cleaning stacks SS6102 and SS6103	PM_{10}	Once every 2 ½ years
No. 1 BOP each Hot Metal Processing Facility includes hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming as applicable – 0.05 pound SO_2 per ton of hot metal processed	SO_2	Pursuant to the US EPA Administrative Consent Order issued January 2, 2003 SO_2 shall be performed once every 2 2 years Results from this test can not be used to demonstrate compliance with the SO_2 emission limit as measured during the hot metal desulfuriztion reagent injection only compliance demonstration.
No. 1 BOP each Hot Metal Desulfurization facilities as measured during hot metal desulfuriztion reagent injection only 0.01 pound SO_2 per ton of hot metal processed	SO_2	Pursuant to the US EPA Administrative Consent Order issued January 2, 2003 SO_2 shall be performed once every 2 2 years Results from this test can not be used to demonstrate compliance with the SO_2 emission limit for the hot metal processing: hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming compliance demonstration.
Number 2 Q-BOP Gas Cleaning Systems stacks NS6124 and NS6125	PM_{10}	Once every 2 2 years
Number 2 Q-BOP Secondary Emissions Baghouse stack NS6123	PM_{10}	Once every 2 2 years
Number 2 Q-BOP Hot Metal Desulfurization Baghouse stack NS6144	PM_{10}	Once every 5 years
No. 2 Q-BOP each Hot Metal Processing Facility includes hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming as applicable - 0.05 pound SO_2 per ton of hot metal processed	SO_2	Pursuant to the US EPA Administrative Consent Order issued January 2, 2003 SO_2 shall be performed once every 2 2 years. Results from this test can not be used to demonstrate compliance with the SO_2 emission limit as measured during the hot metal desulfuriztion reagent injection only compliance demonstration.
No. 2 Q-BOP each Hot Metal Desulfurization facilities as measured during hot metal desulfuriztion reagent injection only 0.01 pound SO_2 per ton of hot metal processed	SO_2	Pursuant to the US EPA Administrative Consent Order issued January 2, 2003 SO_2 shall be performed once every 2 2 years Results from this test can not be used to demonstrate compliance with the SO_2 emission limit for the hot metal processing: hot metal transfer, hot metal desulfurization reagent injection and hot metal skimming compliance demonstration.
84” Hot Strip Mill Continuous Reheat	PM_{10}	Once every 5 years, with a different stack being

Facility	Pollutant	Frequency
Furnaces Nos. 1, 2, 3 and 4 stacks RM6500, RM6501, RM6502 and RM 6503.	SO_2	tested in each 5 year cycle, since the units are all the same. SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
84" Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 stacks HB6504 and HB6505	PM_{10} SO_2	Once every 5 years, with a different stack being tested in each 5 year cycle, since the units are all the same. SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
80-inch Continuous Pickling Line	HCl	Once every 2 ½ years A request for an alternative performance testing schedule was granted by IDEM,OAQ in a letter dated May 6, 2002.
84-inch Continuous Pickling Line	HCl	Once every 2 ½ years A request for an alternative performance testing schedule was granted by IDEM,OAQ in a letter dated May 6, 2002.
No. 4 Boiler House Boilers No. 1 stack O46268, No. 2 stack O46269 and No. 3 stack O46270, when all three boilers are operating	PM_{10},	Once every 2 ½ years
No. 4 Boiler House Boiler No. 1 stack O46268	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 4 Boiler House Boiler No. 2 stack O46269	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
No. 4 Boiler House Boiler No. 3 stack O46270,	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boilers No. 1 stack OT6271, No. 2 stack OT6272, No. 3 stack OT6273, and No. 5 stack OT6275, when all four boilers are operating.	PM_{10},	Once every 2 ½ years
TBBH Boiler No. 1 stack OT6271	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boiler No. 2 stack OT6272	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boiler No. 3 stack OT6273	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boiler No. 4A stack S-1	PM_{10}, SO_2	Once every 2 ½ years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boiler No. 5 stack OT6275	SO_2	SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.
TBBH Boiler No. 6 stack TBBH-6	PM_{10}, SO_2	Once every 2 ½ years SO_2 Fuel Sampling and Analysis and stack testing within 30 days of IDEM, OAQ request.

Compliance Monitoring

Permits issued under 326 IAC 2-7are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source=s failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring

Coal Handling			
Nos. 2 Coke Battery Precarbonization facilities Stacks CH6034, CH6035, and CH6037, (electrostatic precipitators)	Once per shift Visible emission notations	Once per shift number of T-R Sets in service; Primary and Secondary voltages and currents of the T-R sets	Once every two years T-R set inspections
Nos. 3 Coke Battery Precarbonization facilities Stacks CH6028, CH6029 and CH6031(electrostatic precipitators)	Once per shift Visible emission notations	Once per shift number of T-R Sets in service; Primary and Secondary voltages and currents of the T-R sets	Once every two years T-R set inspections
Coke Oven Batteries			
Coke Oven Batteries: oven doors, topside port ids, off take systems and per charge	Daily Visible emissions using Method 303		
No. 2 and 3 Coke Oven Batteries Mobile scrubber cars 9121 and 9122	Once per shift Visible emission notations		Quarterly scrubber car inspections
No. 5 and 7 Coke Oven Batteries Pushing Stack CP 6050 (baghouse)	Once per shift Visible emission notations		Quarterly baghouse inspections
Sinter Plant			
Sinter Windbox Gas Cleaning System stacks IS6198 and IS6199; scrubbers	Once per shift Visible emission notations	Once per shift 3–8 inches of water pressure drop	once per shift 400 to 600 gallons per minute flow rate
Sinter Windbox Gas Cleaning System stacks IS6198 and IS6199; baghouse	Once per shift Visible emission notations	Once per shift 3-6 inches of water pressure drop	Quarterly baghouse inspections
Sinter Cooler stacks IS6203, IS6204 and IS6205,	Once per shift Visible emission notations		

Sinter Discharge Ends Area stacks IS6200, IS6201 and IS6202	Once per shift Visible emission notations	Once per shift 3-6 inches of water pressure drop	Quarterly baghouse inspections
Blast Furnaces			
No. 13 Blast Furnace Casthouse Stack ID6187 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 9 inches of water pressure drop	Quarterly baghouse inspections
Flares No.1, No. 2 and No. 4	Monitor presence of flame at the flare tip.		
Number 1 BOP Shop			
Hot Metal Desulfurization Station Stack SS6100 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 6 inches of water pressure drop	Quarterly baghouse inspections
No. 1 BOP Gas Cleaning System Stacks SS6102 and SS6103 (scrubbers)	Once per shift Visible emission notations	Once per shift 70 – 75 inches of water pressure drop	3000 to 4500 gallons per minute flow rate
Casbell/OB Lancing Stations Stack SS6104 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 6 inches of water pressure drop	Quarterly baghouse inspections
Number 2 Q-BOP Shop			
Hot Metal Desulfurization Stations and Mixers Stack NS6144 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 9 inches of water pressure drop	Quarterly baghouse inspections
Secondary Emissions Stack NS6123 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 9 inches of water pressure drop	Quarterly baghouse inspections
No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125	Once per shift Visible emission notations	Once per shift 50 to 70 inches of water pressure drop	Once per shift 3000 to 4400 gallon per minute flow rate
No. 1 and 2 Ladle Metallurgical Facilities Stacks NS6146 and NS6147 (baghouses)	Once per shift Visible emission Notations	Once per shift 3 to 6 inches of water pressure drop	Quarterly baghouse inspections
No. 3 Ladle Metallurgical Facilities Stack NS6148 (baghouse)	Once per shift Visible emission notations	Once per shift 3 to 6 inches of water pressure drop	Quarterly baghouse inspections

Conclusion

The operation of this integrated steel mill shall be subject to the conditions of the attached proposed Part 70 Permit No. T089-7663-00121.

Fugitive Dust Plan

TABLE OF CONTENTS

1.0 Introduction 1
2.0 Description of Facilities 2
3.0 Identification of Facilities 3
3.1 Paved Roadways and Parking Lots 3
3.2 Unpaved Roadways and Parking Lots 3
3.3 Storage Piles 3
3.4 Other Material Handling Facilities 3
3.4.1 Blast Furnace Dustcatchers 3
3.4.2 Revert Coal and Coke Screening 4
3.4.3 Coal and Coke Handling 4
3.4.4 Destock Coke Screening 3
3.4.5 Raw Material Handling at the Sinter Plant 4
3.4.6 Ore Unloading 5
3.4.7 Mill Scale Recycling 5
3.4.8 B-Mix and B-Scrap Recycling 5
3.4.9 Unloading Burnt Lime and Dolomite 5
3.4.10 Baghouse Dust Disposal 6
3.4.11 Alloy Control 6
4.0 Control Measures 6
4.1 Paved Roadway Cleaning 6
4.2 Paved Parking Area Cleaning 6
4.3 Unpaved Roadway Treatment 6
4.4 Exposed Area Treatment 7
4.5 Material Storage Area Treatment 7
4.5.1 Sinter Plant Storage Pile Area 7
4.5.2 Coal Stockpile Delivery Management 7
4.5.3 Coal Storage Pile Areas 8
4.5.4 Coke Loading Station Transfers 8
4.6 Material Transfer and Inplant Transportation Control 8
4.6.1 Vehicle Speed Control 8
4.6.2 Inplant Transportation 8
4.7 Other control Measures 8
5.0 Conditions Preventing Use of Control Measures 9
5.1 Conditions for Paved Roads 9
5.2 Conditions for Unpaved Roadways and Areas and Storage Piles 9
6.0 Schedule for Achieving Compliance 10
6.1 Road Paving Program 10
6.2 Road Cleaning Program 10
6.3 Storage Pile, Material Handling and Transfer, and Exposed Area Treatment 10
6.4 Other Fugitive Dust Control Activities 10
7.0 Record Keeping and Reporting 10
7.1 Drawings Showing Controlled Emission Sources 10
7.2 Records of Water or Chemical Applications 11
7.3 Records of Eliminated or Delayed Treatments 11
7.4 Maintenance of Records 11
7.5 Quarterly Reports 12
7.6 Changing of Control Plan 12
8.0 Fugitive Emission Monitoring Program 12
8.1 Silt Sampling of Paved Road 12
8.2 Opacity Monitoring of Fugitive Emission Sources 12

1.0 INTRODUCTION

On May 12, 1993, The Indiana Department of Environmental Management (IDEM) promulgated rule 326 IAC 6-1-11.1, Lake County Fugitive Particulate Matter Control Requirements, placing it into effect 30 days later. This rule requires that affected sources submit a fugitive particulate control plan to reduce emissions of PM-10 (particulate matter with an aerodynamic diameter of 10 microns or less) from nontraditional sources of fugitive emissions. This plan must include a description of each nontraditional source, measurements of the parameters needed to estimate emissions from these sources, control measures and other work practices to be employed to limit PM-10 emissions from these sources, and conditions (i.e. rain, snow, high wind speeds, freezing conditions, etc.) that may prevent or delay routine implementation of some control measures.

In response to these regulations, Gary Works conducted field programs to quantify emissions of PM-10 generated by vehicular traffic on plant roadways, material handling and transfer activities, wind erosion of storage piles and open areas, and vehicular traffic entering and exiting parking lots. In order to quantify these emissions, samples of the particulate in parking lots and roadways were collected. Storage piles and open areas were also sampled. The opacity of PM-10 emissions from these nontraditional sources were also observed and recorded using the procedures set forth in 326 IAC 6-1-11.1. Gary Works recently updated the original survey. Roadways, storage piles, material transfer and handling activities, parking lots and exposed areas under the control of private contractors were not included in this study. The results of this survey and the quantification of nontraditional sources of fugitive emissions are presented in Figure 1. The background data used to estimate these emissions can be found in Appendix A**.**

The following sections contain the plan developed to control nontraditional fugitive particulate emissions at USS Gary Works. This plan updates the original plan submitted in 1993 and will be executed under the supervision of the USS Environmental Control Division, Gary Works, One North Broadway, Mail Station 70, Gary, Indiana 46402. Telephone number (219) 888-2339. This plan will be implemented on a year round basis except, when not required to do so under Section 5.0 – Conditions Preventing Use of Control Measures.

Areas of USS Gary Works which are under the control of independent contractors and companies will have separate particulate control plans and are not covered within the context of this particulate control plan. These contractors fall under 326 IAC 6-1-11.1 paragraph (a) (4). top↑

2.0 DESCRIPTION OF FACILITIES

USS Gary Works is a fully integrated steelmaking facility located on the southern shore of Lake Michigan in Gary, Indiana. The plant occupies an area approximately seven miles long and more than a mile wide. Landfill areas occupy the extreme eastern end of the plant property. The

Coke Plant and Sinter Plant are also located east of the Slip with the remainder of the Plant west of the slip. Roadways, storage piles, and most of the material handling operations that are the responsibility of Gary Works are identified in this plan. The blast furnace dustcatcher, coke screening, coal handling, raw material handling at the sinter plant, ore unloading, alloy control and other operations are described in paragraphs 3.3.1 through 3.3.11. top↑

3.0 IDENTIFICATION OF FACILITIES

3.1 Paved Roadways and Parking Lots

Drawings GW468068 and GW468069 show the locations of the existing paved roads and parking lots at USS Gary Works. Paved roadways and parking lots that require control measures specified by this plan are identified on these drawings.

3.2 Unpaved Roadways and Open Areas

Drawings GW468070 and GW468071 show the locations of existing unpaved roads and open areas at USS Gary Works. Unpaved roads and open areas that require control measures specified by this plan are identified on these drawings.

3.3 Storage Piles

The approximate locations of the various storage piles are identified on Gary Works drawings GW487814 and GW487815. Because of the transient nature of these storage piles, the exact pile locations may change but the general storage pile areas will remain the same. Load-in, load-out and screening operations are also transient and take place throughout the area.

3.4 Other Material Handling Facilities

The majority of material handling activities that have the potential to generate fugitive particulate are performed by outside contractors. Plant contractor locations and associated activities are identified on Gary Works drawings GW487814 and GW487815. Control of these emissions is the responsibility of the individual contractor and these activities are not included in this control plan. Material handling activities performed by USS are also identified on these drawings and are described below. Figure 2 lists USS material processing facilities and their associated control equipment as specified in 326 IAC 6-1-11.1. A general material process flow diagram can be found in Figure 3.

3.4.1 Blast Furnace Dustcatchers

The blast furnace dustcatchers are unloaded into trucks and hauled to the sinter plant storage area. Occasionally a truck may not be available and the content of the dustcatcher is discharged to the ground and a front-end loader transfers this material to the truck. Because the contents of the dustcatchers for blast furnaces 4, 6, and 8 are wetted in a slurry device with water and steam prior to discharge, emissions are normally negligible. If the dust binds in the dustcatcher and plugs the discharge port, significant emissions may result because the material is not thoroughly wetted in the slurry device.

The No. 13 blast furnace dust catcher unloads automatically on a regular cycle throughout the day. The dust is discharged from an intermediate chamber, which is sealed off from the dust catcher, therefore, the dust falls by gravity to a truck or to the ground and fugitive emissions are not significant. Front-end loaders are used to load material to trucks if on the ground.

3.4.2 Revert Coal & Coke Screening

The coal and coke screening operation sizes undersize material into three or more products. These screened products are recycled or sold. Except for periods when the wind speed is very high, no visible emissions are generated.

3.4.3 Coal and Coke Handling

Coal is transported to the plant by rail. Rail cars are unloaded to hoppers and then the coal is transported by covered conveyors to the coal handling facility where it is pulverized and blended. The blended coal is transferred by covered conveyor to the No. 5 and 7 coke batteries (wet-charged) or to the precarbon facilities and then to the No. 2 and 3 batteries.

After the coking process is completed, the coke is pushed into a quench car and transported to the quench tower. The quenched coke is then transferred to the coke wharf where further cooling takes place. The cooled coke slides down the sloped wharf onto a covered belt conveyor system where it is transferred to one of the three coke loading stations (2 & 3 loading station, No. 5 loading station and No. 6 loading station). The unscreened coke is transported by rail to the blast furnaces where it is unloaded, screened and subsequently charged to the blast furnaces.

3.4.4 Destock Coke Screening

Excess production or purchased coke is staged in a storage area at the east end of the plant. This coke is screened for size prior to use at the blast furnaces. A contractor currently performs this screening activity. Material not suitable for use is recycled or sold.

3.4.5 Raw Material Handling at the Sinter Plant

Waste and raw materials are transferred by truck from various areas of the plant to the Sinter Plant storage pile area. These materials are unloaded from the trucks onto specific storage piles. The material in these storage piles is then loaded into trucks by use of front-end loaders and transferred to one of the blending areas. The material is blended and then loaded into trucks and taken to the sinter plant where it is screened and loaded onto a conveyor. The conveyor transfers the screened material to the Sinter Plant storage bins where it is then fed to the sinter machines. The sinter product is transported by conveyor belt from the sinter plant to the highline sinter load-out bins. Transfer cars deposit the sinter into the appropriate blast furnace bins along the highline. Sinter is then drawn from the highline bins into a stockhouse scale car and then deposited into the blast furnace skips.

3.4.6 Ore Unloading

Pellets are received by bulk carriers and are transferred to a belt conveyor by self-unloaders. Pellets are transferred to a stockpile in the West Ore Yard by a conveyor-stacker or by ore bridge. The material is then handled by ore bridge and/or conveyor and deposited at the North or South pellet screening station. The screened pellets are fed by conveyor into the stockhouse of the No. 13 Blast Furnace.

Screened pellets from the south screening station are transported by conveyor to the blast furnace highline load-out bin. Transfer cars transport the pellets from the load-out bin to the appropriate blast furnace bins. The pellets are then drawn from the highline bins into a stockhouse scale car where they are weighed before being deposited into the blast furnace skips.

3.4.7 Mill Scale Recycling

Mill scale is transferred by truck from the 84-inch Hot Strip Mill and the continuous casters to the sinter plant storage area. This material is wet and is unloaded into storage piles prior to being transferred to the blending area.

3.4.8 B-Mix and B-Scrap Recycling

B-Mix and B-Scrap are processed by slag contractors at several locations in the plant. The material is screened, loaded into trucks and transported to the north and south ends of the West Ore Yard on an alternating sequence. The material is then handled by ore bridge and deposited into highline transfer cars. The transfer cars transport the B-Mix or B-Scrap to the appropriate blast furnace highline bins. The material is then drawn from the highline bins into a stockhouse scale car and deposited into the blast furnace skips.

3.4.9 Unloading Burnt Lime and Dolomite

Burnt lime for the No. 1 BOP Shop is unloaded from rail cars at the flux unloading station east of the shop. The railcar is positioned over an underground storage bin and the lime is discharged from the hopper beneath the car into the storage bin. The burnt lime is transferred from the storage bin by covered conveyor to the highline storage bins inside the BOP Shop. The lime is then drawn from the storage bins into the furnace hopper.

Pulverized lime and pebble sized dolomite are both used as fluxing agents at the No. 2 Q-BOP. Pulverized lime is delivered to the flux unloading station south of the Q-BOP in railroad cars. The lime is unloaded through hoppers at the bottom of the cars by introducing low-pressure air into the hoppers so that the lime is fluidized and flows freely into an underground storage bin. The lime is then transferred pneumatically via a 12-inch steel pipe from the bottom of the storage bin to the day storage tank. The day storage tank is located north of the unloading building and holds enough lime to supply the Q-BOP Shop for one day. The lime is again transferred pneumatically from the day tank to three intermediate bins inside the Q-BOP Shop. The lime in the intermediate bins is transferred to the weigh tank by a short air slide. The powdered lime leaving the weigh tank is injected with oxygen through the tuyeres.

Dolomite is unloaded from rail cars or trucks into underground bins at the unloading house. A conveyor that starts 20-feet underground moves the dolomite to the Q-BOP transfer tower and another conveyor transfers the material to the flux floor. From the flux floor another conveyor moves the dolomite to the inside storage bins. The dolomite is then drawn from the bins to the weigh hoppers.

3.4.10 Baghouse Dust Disposal

Particulate from the many baghouses located at the Gary Works are trucked to the appropriate facility for recycle, disposal onsite or offsite. Figure 2 identifies the plant dust control equipment and the disposition of the collected particulate.

3.4.11 Alloy Control

Alloys used for additions during steel making are screened and stored in small piles prior to use. These alloys are loaded by front-end loaders into trucks and transported to the appropriate facility. top↑

4.0 CONTROL MEASURES

4.1 Paved Roadway Cleaning

Paved roadways within USS Gary Works will be cleaned by using high pressure water flushing and/or vacuum sweeping. The planned cleaning frequency of each paved road segment along with the segment length is listed in Table 1. This frequency may be temporarily or permanently modified if the emissions limitation specified in 326 IAC 6-1-11.1 is exceeded and/or the road silt loading is excessive. Gary Works drawings nos. GW468068 & GW468069 identify paved roadways that require control measures in the plant.

4.2 Paved Parking Area Cleaning

Paved parking areas may be high pressure water flushed and/or vacuum swept to prevent visible particulate emissions from vehicular traffic. Identified lots will be cleaned on as needed basis determined by an opacity-based mechanism where parking areas will be monitored using procedures described in 326 IAC 6-1-11.1. The paved parking areas eligible for control measures are listed in Table 2. Gary Works drawings nos. GW468068 & GW468069 identify lot locations in the plant.

4.3 Unpaved Roadway Treatment

All unpaved roadways listed below in Table 3 are identified on Gary works drawings GW468070 & GW468071 and will be treated with a commercially produced chemical dust suppressant specifically manufactured for that purpose. Application rates and frequencies will be consistent with the manufacturers recommendations to achieve the degree of control required to meet the

applicable emission limitation. At times, recommended application rates may be too high to be absorbed by the roadway in one step. In that case, application will be adjusted in dust suppressant concentration and frequency to ensure proper control of particulate emissions per 326 IAC 6-1-11.1. As an alternative USS may pave previously unpaved road sections and apply paved road cleaning measures to these newly paved roads at frequencies consistent with the existing paved roads in the immediate area.

Gary Works currently uses an asphalt based emulsion dust suppressant to control particulate emissions from unpaved roadways. A material data safety sheet (MSDS) for the current dust suppressant can be found in Appendix B. The minimum application frequencies are shown in Table 4. Note: Contractors are responsible for the treatment of roadways under their control.

4.4 Exposed Area Treatment

Unpaved open areas without roadway designations may require treatment to reduce windblown emissions or to prevent visible emissions from vehicular traffic that utilize these areas. Gary Works will commit to the opacity-based mechanism of the average instantaneous opacity of 10% as described in 326 IAC 6-1-11.1. Application of dust suppressant chemical will be done at a frequency and application rate to effectively control fugitive dust to the above stated opacity limitation. Table 5 lists unpaved open areas currently controlled by chemical dust suppressants at Gary Works and drawings nos. GW468070 and GW468071 show their locations. In addition to chemical treatment, selected open areas have been seeded with vegetation to inhibit the generation of fugitive dust. Current plans are to continue vegetating areas to prevent dust generation in open areas. Note: Contractors are responsible for the treatment of unpaved open areas under their control.

4.5 Material Storage Area Treatment

4.5.1 Sinter Plant Storage Pile Area

Measures to control fugitive emissions generated by mechanical disturbance and wind erosion of the storage piles in the sinter plant area are limited to water spraying, because by specification, hydrocarbon compounds like those contained in the dust suppressant chemicals are strictly limited in the burden materials. This area will be routinely sprayed with water at a rate and frequency necessary to achieve compliance with the applicable emissions limitation.

4.5.2 Coal Stockpile and Delivery Management

Coal stockpile management focuses on the reduction of inventory and land used for coal storage. Coal deliveries are scheduled to maximize availability to utilize coal directly as efficiently as possible. Adherence to shipping schedule is a priority for all concerned parties involved including coal suppliers, railroads and USS.

4.5.3 Coal Storage Pile Areas

A dust suppressant will be applied to coal storage piles, April through November, on an as needed basis to meet the opacity limitation specified in 326 IAC 6-1-11.1. The material safety data sheet for the currently used dust suppressant can be found in Appendix B.

4.5.4 Coke Loading Station Transfers

Coke is transferred to the blast furnaces via three loading stations located at the coke plant. A dust suppressant will be applied at these loading stations should this material transfer activity generate excessive fugitive particulate emissions as specified in 326 IAC 6-1-11.1. The material safety data sheet for the currently used dust suppressant can be found in Appendix B.

4.6 Material Transfer and Inplant Transportation Control

4.6.1 Vehicle Speed Control

All plant roads shall have posted 20 mph speed limits with a few exceptions dependent upon location and utilization. Enforcement of these posted speed limits shall be the responsibility of the various plant security forces who will employ security vehicles and radar.

4.6.2 Inplant Transportation

Inplant transportation of material by truck will be carried out in such a manner that meets the opacity standard found in 326 IAC 6-1-11.1 (d)(6). Material transported by rail or trucks that generate visible particulate emissions will be covered to meet the applicable emission limit.

4.7 Other control Measures

Gary Works has a program to evaluate and improve paved and unpaved roads on an as needed basis when funds are available.

Vacuum sweeping or flushing on paved roads will continue and the unpaved shoulders of the more heavily traveled roads will be treated with a dust suppressant.

The use of open areas as roadways creates a dust problem because vehicles may veer off paved roads to travel on exposed open areas and can track dust onto paved road surfaces. In addition, in some parts of the plant, vehicles can travel in and out of material processing areas although alternate routes can be taken. In order to limit the use of open areas as roadways and reduce the volume of traffic in material processing areas, signs and concrete barriers may be used to redirect traffic at selected locations. The placement of signs and concrete barriers will be coordinated with knowledgeable plant personnel. After the signs and barriers are in place, additional traffic control measures will be evaluated that will further limit the generation of fugitive dust.

As an alternative to eliminate treatment, selected exposed areas may be seeded with an appropriate ground cover to limit or eliminate the generation of fugitive particulate. The type of ground cover to be established will be appropriate to the soil and climatic conditions at the Gary Works, and will be self-sustaining. top↑

5.0 CONDITIONS PREVENTING USE OF CONTROL MEASURES

Under the following set of conditions, USS Gary Works will not perform the control measures as listed above.

5.1 Conditions for Paved Roads

The cleaning of paved road segments may be delayed when:

- It is raining or snowing at the time of the scheduled cleaning.
- Rain of 0.1 or more inches or 0.5 inches or more of snow has accumulated during the 24-hour period prior to the scheduled cleaning.
- The temperature is below 32ºF at the scheduled time of cleaning, use of high pressure water flushing will be discontinued due to the potential for ice buildup on roadways.
- The road segment is closed or abandoned. Abandoned roads will be barricaded to prevent vehicle access.
- Treatment is not required because the roadway meets the opacity limitation specified in 326 IAC 6-1-11.1.

In the event that consecutive rain or snow days create a condition where a severe backlog of road segments to be cleaned exists, USS will make a reasonable effort to eliminate this backlog as soon as conditions permit.

5.2 Conditions for Unpaved Roadways and Areas and Storage Piles

The treating of unpaved road segments, unpaved areas, or storage piles may be delayed when:

- It is raining or snowing at the time of the scheduled treatment.
- Greater than 0.1 inches of rain or 0.5 inches of snow has accumulated during the 24-hour period prior to the scheduled treatment.
- Road segments, areas, or piles are saturated with water such that chemical dust suppressants cannot be accepted by the surface.

- Road segments, areas, or piles are frozen or covered by ice, snow or standing water.
- The road segment or area is closed or abandoned. Abandoned roads will be barricaded.
- Treatment is not required because the unpaved road or open area meets the opacity limitation specified in 326 IAC 6-1-11.1.
- Sustained wind speeds are excessive.

The treatment of exposed areas and storage piles may be temporarily suspended during periods when excessive wind speeds would result in ineffective or wasteful chemical use. top↑

6.0 SCHEDULE FOR ACHIEVING COMPLIANCE

6.1 Road Paving Program

Road paving and repairing is an ongoing program at the plant. It is expected that the paving of unpaved roads, and paved roads in poor condition, will continue.

6.2 Road Cleaning Program

The road cleaning program was implemented on January 1, 1994, and continues.

6.3 Storage Pile, Material Handling & Transfer, and Exposed Area Treatment

The treatment of storage piles, material handling and transfer activities, and exposed areas was implemented on January 1, 1994, and continues.

6.4 Other Fugitive Dust Control Activities

Other fugitive dust control measures as described in Section 4.7 will continue. top↑

7.0 RECORD KEEPING AND REPORTING

7.1 Drawings Showing Controlled Emission Sources

The drawings showing the locations of the controlled roadways, parking lots, storage piles, open areas, and material handling will be kept in the Environmental Control Division Office.

Drawings will also be maintained showing the locations of all areas under the control of outside contractors at USS Gary Works.

7.2 Records of Water or Chemical Applications

Records will be kept on file of all sweeping and flushing and chemical treatments that are performed on the fugitive dust sources covered by this control plan. These forms will be kept in the Environmental Compliance, Energy and Environmental Control Division Office. The following information will be contained on the form:

- The name and location of the roadway, area, or pile controlled.
- The application rate.
- The time of each application.
- The area covered by each application.
- Identification of each method of application.
- The total quantity of water or chemical used for each application.
- For each application of chemical solution, the concentration and identity of the chemical.

If special physical or chemical treatment occurs on an area or facility within the plant as specified in 326 IAC 6-1-11.1 part (e), paragraph (4)(C), the following information will be provided in the log:

- The name of the physical or chemical agent used.
- The location of the application,
- The application rate.
- The total quantity of agent used.
- If the agent was diluted, the percent of concentration.

7.3 Records of Eliminated or Delayed Treatments

A log will be maintained for the reporting of incidents that prevent the application of control measures. For each incident, the date along with a specific explanation as to why the control measures were not implemented will be provided. This notation should also include any necessary corrective action to be taken.

7.4 Maintenance of Records

A section will be established within the Environmental Control Division Office for the Storage of five (5) years of records pertaining to fugitive particulate control measures. Copies of all records required will be submitted to IDEM within twenty (20) working days upon written request. These records will be available for inspection and copying by IDEM department representatives during normal working hours.

7.5 Quarterly Reports

A quarterly report will be submitted by the Environmental Control Division Office containing the following information:

- The dates on which any of the required control measures were not implemented.
- A listing of the above control measures.
- The reasons that the control measures were not implemented.
- Any corrective action taken, that may be necessary.

This report will be submitted to the IDEM within 30 calendar days after the end of the quarter. The quarters end on March 31, June 30, September 30, and December 31.

7.6 Changing of Control Plan

The plan administrator will review and update the plan as necessary. A copy of the revised plan will be provided to IDEM upon request. The plan will also be revised if IDEM determines that the requirements of the control plan have not been met and requests such revisions in writing. The plan will also be revised if a significant change occurs on a road, area, or transfer procedure which would make the current control measure obsolete, such as an unpaved road being paved. top↑

8.0 FUGITIVE EMISSION MONITORING PROGRAM

8.1 Silt Sampling of Paved Road

If requested by IDEM, USS Gary Works will provide representative silt loading measurements for a maximum of ten paved roads per month during the months of April through November. Silt loadings will be measured in accordance with the procedures provided in the Rule. IDEM will have the right to specify the road segments to be sampled.

8.2 Opacity Monitoring of Fugitive Emission Sources

A visible emission based mechanism as described in 326 IAC 6-1-11.1 (d)(1-9) will be used to determine the effectiveness of this treatment program. Opacity readings will be taken one day per month of paved and unpaved roads, parking lots, material handling, processing, transfer activities, wind erosion of storage piles and exposed areas during the months of April through November. Opacity readings will help to determine the effectiveness of the program and identify areas where corrective action may be necessary to maintain compliance. top↑

LIST OF DRAWINGS

GW468068 - Paved Roadways and Paved Parking Lots (West)
GW468069 - Paved Roadways and Paved Parking Lots (East)
GW468070 - Unpaved Roadways and Open Areas (West)
GW468071 - Unpaved Roadways and Open Areas (East)
GW487814 - Storage Piles and Material Handling (West)
GW487815 - Storage Piles and Material Handling (East)

TABLES

Table 1 - Paved Roads
Table 2 - Paved Parking Lots
Table 3 - Unpaved Roads
Table 4 - Control Levels of Applications to Unpaved Roads
Table 5 - Unpaved Open Areas

APPENDICES

Appendix A (Background Data for Estimating Particulate Emissions) top↑
A roads
B roads
C roads
D roads
E roads
Fugitives
Material handling
Modeling Area Designations
Outdoor storage piles

Road Segments

Appendix B (Material Safety Data Sheets for Dust Suppressants) top↑

Asphotac 18883 MSDS
EC-46 MSDS
PetroTac MSDS

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality

Appendix A to Technical Support Document (TSD): Technical Support Document for the NO_X Budget Permit

Source Background and Description

Source Name: U.S. Steel - Gary Works
Source Location: One North Broadway, Gary, Indiana 46402
Operated By: United States Steel Corporation, Gary Works
Owned By: United States Steel Corporation
ORIS Code: 50733
Operation Permit No.: T089-7663-00121
Permit Reviewer for NO_X Budget Permit: Madhurima Moulik

NO_X Budget Permit Application and Rule Applicability

A complete Nitrogen Oxides (NO_X) Budget Permit Application for this NO_X budget source was received on September 2, 2003. The Office of Air Quality (OAQ) has reviewed a NO_X budget permit application from U.S. Steel - Gary Works under 326 IAC 10-4-7 for the operation of the NO_X budget source. The NO_X budget source includes all NO_X Budget Units at the source, including opt-in units, if applicable. The following units at the source are NO_X Budget Units:

At Boiler House No. 4, emissions group 720:

(a) Two (2) Boilers, 720 No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas and fuel oil, having a heat input of 500 MMBtu per hour each, exhausting through Stacks O46268 and O46269, respectively.

(b) One (1) Boiler, 720 No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, having a heat input of 500 MMBtu per hour, exhausting through Stack O46270.

At the Turbo Blower Boiler House (TBBH), emissions group 701:

(a) Three (3) Boilers, 701 No. 1, No. 2, and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, having a heat input of 400 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

(b) One (1) Boiler 701 No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas, coke oven gas, fuel oil and natural gas, having a heat input of 450 MMBtu per hour, exhausting through Stack OT6275.

(c) One (1) boiler 701 No. 6, identified as OTB60467, constructed prior to August 17, 1971,

equipped to combust blast furnace gas and natural gas, having a heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276.

Pursuant to 326 IAC 10-4-7, the NO_X budget permit shall be a complete and segregable portion of the Part 70 permit and the NO_X budget portion of the Part 70 permit shall be administered in accordance with 326 IAC 2-7, except as provided otherwise by 326 IAC 10-4-7.

Program Description

On October 27, 1998, the U.S. EPA promulgated final federal rules requiring 22 states and the District of Columbia to submit state implementation plan (SIP) revisions to reduce the regional transport of ozone. The federal rule focused on reducing NO_X emissions in the affected states. In the federal rule, the U.S. EPA established a NO_X emission "budget" for each of the affected states and the District of Columbia. The "budget" represents a reduction from emissions in the year 2007 that the U.S. EPA believes will reduce the transport of NO_X emissions and will assist downwind areas in meeting ozone air quality standards. The states must demonstrate compliance with the "budget" by implementing control measures to reduce NO_X emissions beginning May 31, 2004. While the rule does not mandate which sources will have to reduce emissions, the rule did provide options that would result in a 65% reduction of NO_X emissions from utility boilers and a 60% reduction from large industrial (non-utility) boilers and turbines. IDEM developed the NO_X Budget Trading Program in 326 IAC 10-4 in response to this mandate. The NO_X reductions that will be achieved by this rule will result in significant air quality improvements throughout the state of Indiana, and will be especially important in those areas of the state where ozone levels exceed or regularly approach state and federal air quality health standards.

The Nitrogen Oxides Budget Trading Program is a regional cap and trade program among all the states subject to the NO_X SIP call. Electricity generating units (EGUs) and non-electricity generating units (non-EGUs) are allocated allowances for tons of NO_X that they are allowed to emit during the ozone season. IDEM allocates NO_X allowances for the affected units, and owners or operators of these units are able to buy, sell, or trade allowances, as necessary, to demonstrate compliance with the unit's NO_X emissions cap. Because this program is a regional program administered by U.S. EPA, sources are able to buy, sell or trade allowances across state boundaries and between different types of units and sources. More information about the NO_X SIP Call can be found at: http://www.epa.gov/airmarkets/fednox/index.html and http://www.in.gov/idem/air/standard/Sip/index.html.

326 IAC 10-4 (NO_X Budget Trading Program) Requirements

(a) Pursuant to 326 IAC 10-4-4(b), the owners and operators and, to the extent applicable, the NO_X authorized account representative of the NO_X budget source and each NO_X budget unit at the source shall comply with the monitoring requirements of 40 CFR 75 and 326 IAC 10-4-12. The emissions measurements recorded and reported in accordance with 40 CFR 75 and 326 IAC 10-4-12 shall be used to determine compliance by each unit with the NO_X budget emissions limitation under 326 IAC 10-4-4(c).

(b) Pursuant to 326 IAC 10-4-4(c), the owners and operators of the NO_X budget source and each NO_X budget unit at the source shall hold NO_X allowances available for compliance deductions under 326 IAC 10-4-10(j), as of the NO_X allowance transfer deadline, in each unit's compliance account and the source's overdraft account in an amount:

(1) Not less than the total NO_X emissions for the ozone control period from the unit, as determined in accordance with 40 CFR 75 and 326 IAC 10-4-12;

(2) To account for excess emissions for a prior ozone control period under 326 IAC 10-4-10(k)(5); or

(3) To account for withdrawal from the NO_X budget trading program, or a change in regulatory status of a NO_X budget opt-in unit.

The NO_X budget units shall be subject to the requirements under 326 IAC 10-4-4(c)(1) starting on May 31, 2004.

(c) Pursuant to 326 IAC 10-4-4(d), the owners and operators of each NO_X budget unit that has excess emissions in any ozone control period shall do the following:

(1) Surrender the NO_X allowances required for deduction under 326 IAC 10-4-10(k)(5).

(2) Pay any fine, penalty, or assessment or comply with any other remedy imposed under 326 IAC 10-4-10(k)(7).

(d) Pursuant to 326 IAC 10-4-4(e)(1), unless otherwise provided, the owners and operators of the NO_X budget source and each NO_X budget unit at the source shall keep either on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years:

(1) The account certificate of representation for the NO_X authorized account representative for the source and each NO_X budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 326 IAC 10-4-6(h). The certificate and documents shall be retained either on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond the five (5) year period until the documents are superseded because of the submission of a new account certificate of representation changing the NO_X authorized account representative.

(2) All emissions monitoring information, in accordance with 40 CFR 75 and 326 IAC 10-4-12, provided that to the extent that 40 CFR 75 and 326 IAC 10-4-12 provide for a three (3) year period for record keeping, the three (3) year period shall apply.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the NO_X budget trading program.

(4) Copies of all documents used to complete a NO_X budget permit application and any other submission under the NO_X budget trading program or to demonstrate compliance with the requirements of the NO_X budget trading program.

This period may be extended for cause, at any time prior to the end of five (5) years, in writing by IDEM, OAQ or the U.S. EPA. Records retained at a central location within Indiana shall be available immediately at the location and submitted to IDEM, OAQ or U.S. EPA within three (3) business days following receipt of a written request. Nothing in 326 IAC 10-4-4(e) shall alter the record retention requirements for a source under 40 CFR 75. Unless otherwise provided, all records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

(e) Pursuant to 326 IAC 10-4-4(e)(2), the NO_X authorized account representative of the NO_X budget source and each NO_X budget unit at the source shall submit the reports and compliance certifications required under the NO_X budget trading program, including those under 326 IAC 10-4-8, 326 IAC 10-4-12, or 326 IAC 10-4-13.

Monitoring

The NO_X Budget Trading Program references monitoring and reporting requirements from the Acid Rain program at 40 CFR Part 75. These provisions require, for most sources, the use of continuous emissions monitors (CEMs). A CEM is a system composed of various equipment that continuously measures the amount of nitrogen oxides emitted into the atmosphere in exhaust gases from the NO_X budget unit's stack.

NO_X Emissions Allocations

(a) Pursuant to 326 IAC 10-4-7(e), this NO_X budget permit is deemed to incorporate automatically, upon recordation by the U.S. EPA under 326 IAC 10-4-10, 326 IAC 10-4-11, or 326 IAC 10-4-13, every allocation, transfer, or deduction of a NO_X allowance to or from the compliance accounts of the NO_X budget units or the overdraft account of the NO_X budget source covered by this permit. The allocations for each ozone season and transaction information can be found at: http://www.epa.gov/airmarkets/tracking/factsheet.html. In addition, IDEM, OAQ posts proposed allocations prior to submitting them to the U.S. EPA on the following web site: http://www.in.gov/idem/air/standard/Sip/index.html.

(b) The following requirements from 326 IAC 10-4-4(c) apply to NO_X allowances:

(1) Each ton of NO_X emitted in excess of the NO_X budget emissions limitation shall constitute a separate violation of the Clean Air Act (CAA) and 326 IAC 10-4.

(2) NO_X allowances shall be held in, deducted from, or transferred among NO_X allowance tracking system accounts in accordance with 326 IAC 10-4-9 through 11, 326 IAC 10-4-13, and 326 IAC 10-4-14.

(3) A NO_X allowance shall not be deducted, in order to comply with the requirements under 326 IAC 10-4-4(c)(1), for an ozone control period in a year prior to the year for which the NO_X allowance was allocated.

(4) A NO_X allowance allocated under the NO_X budget trading program is a limited authorization to emit one (1) ton of NO_X in accordance with the NO_X budget trading program. No provision of the NO_X budget trading program, the NO_X budget permit application, the NO_X budget permit, or an exemption under 326 IAC 10-4-3 and no provision of law shall be construed to limit the authority of the U.S. EPA or IDEM, OAQ to terminate or limit the authorization.

(5) A NO_X allowance allocated under the NO_X budget trading program does not constitute a property right.

(6) Upon recordation by the U.S. EPA under 326 IAC 10-4-10, 326 IAC 10-4-11, or 326 IAC 10-4-13, every allocation, transfer, or deduction of a NO_X allowance to or from a NO_X budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become

a part of, this NO_X budget permit of the NO_X budget unit by operation of law without any further review.

Other Record Keeping and Reporting Requirements

Pursuant to 326 IAC 10-4-7(g), except as provided in 326 IAC 10-7-4(e), IDEM, OAQ shall revise the NO_X budget permit, as necessary, in accordance with the permit modification and revision provisions under 326 IAC 2-7.

Pursuant to 326 IAC 10-4-7(b)(1)(C), for permit renewal, the NO_X authorized account representative shall submit a complete NO_X budget permit application covering the NO_X budget units at the source in accordance with 326 IAC 2-7-4(a)(1)(D) with the Part 70 permit renewal.

Submissions

The NO_X authorized account representative for each NO_X budget source on behalf of which a submission is made must sign and certify every report or other submission required by the NO_X budget permit. The NO_X authorized account representative must include the following certification statement in every submission: "I am authorized to make this submission on behalf of the owners and operators of the NO_X budget sources or NO_X budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

Recommendation

The staff recommends to the Commissioner that the NO_X budget permit be approved.

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

Additional Information

Questions regarding the NO_X budget permit can be directed to Madhurima Moulik at the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), 100 North Senate Avenue, Indianapolis, Indiana 46204 or by telephone at (317) 233-0868 or toll free at 1-800-451-6027 extension 3-0868.

The source will be inspected by IDEM's compliance inspection staff. Persons seeking to obtain information regarding the source's compliance status or to report any potential violation of any permit condition should contact Dave Sampias by telephone at (219) 881-6712 or toll free at 1-888-209-8892 or by mail at the IDEM Northwest Regional Office, 504 Broadway, Suite 418, Gary, Indiana 46402.

Copies of the Code of Federal Regulations (CFR) referenced in the permit may be obtained from:

Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

or
The Government Printing Office
Washington, D.C. 20402
or
on the Government Printing Office web site at
http://www.access.gpo.gov/nara/cfr/index.html