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: September 12, 2006

RE: Mittal Steel USA - Indiana Harbor East / 089-6577-00316

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
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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Mittal Steel USA Inc. - Indiana Harbor East
3210 Watling Street
East Chicago, Indiana 46312

(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.: T089-6577-00316	
Original signed by: Nisha Sizemore, Branch Chief Office of Air Quality	Issuance Date: September 12, 2006 Expiration Date: September 12, 2011

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D.9 FACILITY OPERATION CONDITIONS - 80" Hot Strip Mill.....

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.9.1 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]
D.9.2 Walking Beam Furnace Limitations [326 IAC 2-2][326 IAC 2-3]
D.9.3 Fuel Usage Limit [326 IAC 2-2]
D.9.4 Sulfur Dioxide [326 IAC 2-2]
D.9.5 PSD and Emissions Offset Credit Limits [326 IAC 2-2 and 326 IAC 2-3]
D.9.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.9.7 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
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D.10 FACILITY OPERATION CONDITIONS - 12" Bar Mill.....

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.10.1 Particulate Matter [326 IAC 6.8-2-6]
D.10.2 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]
D.10.3 Sulfur Dioxide [326 IAC 7-4.1-1]
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Compliance Determination Requirements
D.10.5 Particulate Control [326 IAC 2-7-6(6)]

D.11 FACILITY OPERATION CONDITIONS - No. 3 Cold Strip Mill.....

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.11.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

D.11.2 National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCI Process Facilities and Hydrochloric Acid Regeneration Plants [40 CFR 63, Subpart CCC] [40 CFR 63.1157]
D.11.3 NESHAP Maintenance Requirements [40 CFR Part 63.1160, Subpart CCC]
D.11.4 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]
D.11.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.11.6 Testing Requirements [40 CFR 63.1161] [40 CFR 63.1162]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.11.7 Monitoring Requirements [40 CFR Part 63.1162]

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.11.8 Record Keeping Requirements
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D.12 FACILITY OPERATION CONDITIONS - Coated Products.....

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D.12.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]
D.12.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]
D.12.3 Particulate Matter [326 IAC 6.8-6]
D.12.4 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]
D.12.5 No. 4 Aluminizing Line Radiant Tube Reducing Furnace Limitations
D.12.6 Opacity
D.12.7 Sulfur Dioxide (SO2) [326 IAC 7-4.1-1]
D.12.8 Nitrogen Oxide (NOx) [326 IAC 2-2]
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D.12.12 Particulate Matter (PM)

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D.12.13 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12] [326 IAC 2-7-5]

D.13 FACILITY OPERATION CONDITIONS - Utilities.....

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.13.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]
D.13.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]
D.13.3 Particulate Matter [326 IAC 6.8-2]
D.13.4 Sulfur Dioxide (SO2) [326 IAC 7-4.1-11]
D.13.5 Carbon Monoxide (CO) - Best Available Control Technology [326 IAC 2-2-3]
D.13.6 NOx Budget Unit Exemption [326 IAC 10-4-3]
D.13.7 Equipment and Operational Specifications [326 IAC 2-2]
D.13.8 Operation Restriction – Shutdown of No.4 AC Station [326 IAC 2-2][326 IAC 2-3]
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D.13.10 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

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

D.13.11 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(d)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.13.12 Record Keeping Requirements
D.13.13 Reporting Requirements
D.13.14 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12] [326 IAC 2-7-5]

D.14 FACILITY OPERATION CONDITIONS - Shops.....

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D.14.1 Lake County PM10 emission requirements [326 IAC 6.8-2]
D.14.2 Emission Offsets [326 IAC 2-2][326 IAC 2-3]
D.14.3 Sulfur Dioxide (SO2) [326 IAC 7-4.1-11]
D.14.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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D.14.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]
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D.14.9 Record Keeping Requirements

D.15 FACILITY OPERATION CONDITIONS - Storage Vessels.....

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D.15.1 Volatile Organic Storage Vessels [40 CFR Part 60, Subpart Kb]
D.15.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]
D.15.3 NESHAP Operational and equipment standards [40 CFR Part 63.63.1159, Subpart CCC] Hydrochloric acid storage vessels

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D.15.4 Monitoring Requirements [40 CFR Part 63.1162]

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D.16 FACILITY OPERATION CONDITIONS - Insignificant Activities.....

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D.16.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]
D.16.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]
D.16.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

Compliance Determination Requirement
D.16.5 Particulate Control

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]
D.16.6 Record Keeping Requirements
D.16.7 Volatile Organic Compounds (VOC) [326 IAC 8-3-8] (Material requirements for cold cleaning degreasers)

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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)]
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F Fugitive Dust Sources ……..
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G.1.1 General Provisions Relating to HAPs [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]

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

Appendix A

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 a stationary Integrated Iron and Steel Mill.

Responsible Official:	Leonard Churderewicz
Source Address:	3210 Watling Street, East Chicago, Indiana 46312
Mailing Address:	3210 Watling Street MC 8-130, East Chicago, Indiana 46312
General Source Phone Number:	(219) 399-4325 Thomas Barnett
SIC Code:	3312
County Location:	Lake County
Source Location Status:	Nonattainment for 8-hour ozone standard and PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories under PSD and Emission Offset Rules

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

The source includes Mittal Steel USA Inc. - Indiana Harbor East Plant ID 089-00316, an integrated steel mill collocated with the following on-site contractors:

(a) Mittal Steel USA Inc. - Indiana Harbor East (Plant ID 089-00316), the primary operation, is located at, 3210 Watling Street, East Chicago, Indiana and

(b) Fritz Enterprises Inc. (Plant ID 089-00465), the on-site contractor (an iron and steel recycling process and a coke screening plant), is located at 3210 Watling Street, East Chicago, Indiana

(c) Beemsterboer Slag and Ballast Corp. (Plant ID 089-00356), the on-site contractor (a slag crushing and sizing operation), is located at 3210 Watling Street, East Chicago, Indiana;

(d) East Chicago Recovery (Plant ID 089-00358), the on-site contractor (a briquetting facility), is located at 3236 Watling Street, East Chicago, Indiana.

(e) Heckett MultiServ (Plant ID 089-00367), the on-site contractor (a slag and kish processing plant and scarfing operation), is located at 3236 Watling Street, East Chicago, Indiana;

(f) Oil Technology (Plant ID 089-00369), the on-site contractor (a used oil recycling facility), is located at 3236 Watling Street, East Chicago, Indiana;

(g) Mid Continent Coal and Coke (Plant ID 089-00371), the on-site contractor (a metallurgical coke separation facility), is located at 3236 Watling Street, East Chicago, Indiana;

(h) Indiana Harbor Coke Company (IHCC) (Plant ID 089-00382), the on-site contractor (a heat recovery coal carbonization facility), is located at 3210 Watling Street, East Chicago, Indiana 46312;

(i) Cokenergy, Inc. (Plant ID 089-00383), the on-site contractor (a heated gas steam from coal carbonization operation), is located at 3210 Watling Street, East Chicago, Indiana;

(j) LAFARGE North America (Plant ID 089-00458), the on-site contractor (a slag granulator and pelletizer operation), is located at 3210 Watling Street, East Chicago, Indiana

(k) Heritage Slag Products, LLC (Plant ID 089-00481), the on-site contractor (a slag crushing and sizing operation), is located at 3210 Watling Street, East Chicago, Indiana 46312

Separate Part 70 permits will be issued to Mittal Steel USA Inc. - Indiana Harbor East and each on-site contractor, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

Company Name	TV Permit Number
Mittal Steel USA Inc.- Indiana Harbor East	089-6577- 00316
Fritz Enterprises Inc.	089-20315-00465
Beemsterboer Slag and Ballast Corp.	089-6580-00356
East Chicago Recovery	089-6583-00358
Heckett MultiServ	089-6581-00367
Oil Technology, Inc.	089-6579-00369
Mid Continent Coal and Coke	089-6582-00371
Indiana Harbor Coke Company	089-11311-00382
Cokenergy, Inc.	089-11135-00383
LAFARGE North America	089-14766-00458
Heritage Slag Products, LLC	089-21048-00481

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

Mittal Steel USA Inc. - Indiana Harbor East Plant ID 089-00316, consists of the following permitted emission units and pollution control devices:

(a) No. 5 and 6 Blast Furnace processes, with a combined estimated maximum production rate of 2,506,000 tons per year of hot iron metal, comprised of the following facilities, process equipment and operational practices:

(1) One (1) Pulverized Coal Storage Bin with Bin Vent Filter H (191), having a 400 ton storage capacity, estimated maximum throughput of 325,000 tons per year of pulverized coal, and a flow rate of 3500 acfm, exhausting through stack 191 and constructed in 1991.

(2) No. 5 Blast Furnace, installed in 1939 consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 5 Blast Furnace Stoves (3 units) with an estimated maximum

combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 5 Blast Furnace and exhausting combustion emissions through stack 5.

(C) No. 5 Blast Furnace with an integral blast furnace gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 5 Blast Furnace Stoves.

(D) No. 5 Blast Furnace Casthouse with casting emissions controlled by two (2) No. 5 Blast Furnace Casthouse Collection System Scrubbers having a flow rate of 40,000 acfm, exhausting through stack 1 with construction upgrades in 1986 and 1991.

(E) One (1) No. 5 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(3) No. 6 Blast Furnace, installed in 1942, consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 6 Blast Furnace Stoves (4 units) with an estimated maximum combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 6 Blast Furnace and exhausting combustion emissions through stack 6.

(C) No. 6 Blast Furnace with an integral gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 6 Blast Furnace Stoves.

(D) No. 6 Blast Furnace Casthouse with casting emission controlled by No. 6 Blast Furnace Casthouse Collection System Scrubber having a flow rate of 40,000 acfm, exhausting through stack 2, with a construction upgrade in 1986 on this equipment.

(E) No. 6 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(b) No. 7 Blast Furnace process is comprised of the following facilities, process equipment and operation practices:

(Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for the maximum production rate to increase to 4,417,000 tons per year of molten metal)

(1) Raw material handling and stockhouse material handling for receiving, storage and delivery of blast furnace raw material. The handling operation has an estimated maximum throughput of 7,704,971 tons of iron ore pellets per year; stored in four (4) storage bins with 8073 tons total capacity; 1,514, 604 tons of coke per year, stored in four (4) storage bins with 1314 tons total capacity; and 1,082,736 tons of flux and miscellaneous material per year, stored in six (6) storage bins with 4200 tons total capacity. Emissions are controlled by two (2) baghouses: (1) identified as 168-stockhouse pellet and flux handling baghouse, having a flow rate of 82,500 acfm and (2) identified as 172-stockhouse coke handling baghouse having a flow rate of 27, 500 acfm.

(2) Coke screening operation with emissions controlled by a baghouse, previously identified as 169, having a flow rate of 47,116 acfm and an average screening

capacity of 400 tons per hour. (This equipment is not currently operating)

(3) One (1) blast furnace, identified as No. 7, constructed in 1980 with blast furnace gas processed by a gas cleaning system and equipped with three (3) flares, each with a 1.15 MMBtu per hour igniter capacity of flaring one-third of the maximum generated blast furnace gas through stack 195.

(4) No. 7 Blast Furnace Casthouse constructed in 1980 with casting emissions controlled by two (2) baghouses: identified as 166 (West baghouse) having a flow rate of 500,000 acfm; and 167 (East baghouse) having a flow rate of 300,000 acfm. Emissions from No. 7 blast furnace casthouse are also controlled by trough and runner covers and hoods over the tap holes and pugh ladle addition points.

(5) No. 7 Blast Furnace stoves (3 units) using blast furnace gas and natural gas as fuel with an estimated maximum combined heat input capacity of 953 MMBtu/ hr and emissions exhausting through stack 170. Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for a blast capacity increase and the construction of a fourth (4th) stove.

(6) One (1) Casthouse Roof Monitor 171.

(7) One (1) coke transfer tower (No.4), identified as164, installed in 1997, with a an estimated maximum throughput of 4020 tons of dry coke per day, enclosed and controlled by one (1) baghouse, and exhausting inside the tower.

(8) One (1) coke transfer point, identified as 169, installed in 1997, with an estimated maximum throughput of 4020 tons of dry coke per day, enclosed and controlled.

(9) Slag pits

(c) One (1) Sinter Plant, constructed in 1959, with a an estimated maximum raw material usage of 1.4 million tons per year comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling and blend site.

(2) One (1)-sinter plant windbox, controlled by the main baghouse with emissions exhausting through stack 7.

(3) One (1) sinter plant discharge end, controlled by the discharge end baghouse, and one (1) cooler station, partially controlled by the discharge end baghouse, with emissions exhausting through stack 8, installed in 1959.

(4) One (1) sinter plant upper screening station, with conveyors, screen hoods, and duct system routed to and controlled by the upper screening station baghouse with emissions exhausting through stack 11. This equipment was constructed in 1998.

(5) Sinter loading, unloading, and transfer operations.

(d) One (1) pulverized coal injection (PCI) system with a maximum capacity of 132 tons per hour for Nos. 5, 6 and 7 blast furnaces, constructed in 1991, comprised of the following facilities, process equipment, and operational practices:

(1) Raw coal handling, including rail car unloading facilities and 50,000 ton capacity storage pile (stack 192).

(2) System A- RC-1 and RC-2 conveyors with a maximum throughput of 400 tons per hour, used to move coal to raw coal storage bins, with a baghouse to control

emissions at transfer points and exhausting through stack 185.

(3) System C- RC-2, RC-3 and RC-4 conveyors and two (2) Raw Coal Storage Bins with a storage capacity of 750 tons each, with a baghouse to control emissions at transfer points and exhausting through stack 186.

(4) System D and E-Two (2) 66 ton per hour Pulverizers, with a recovery cyclone and baghouse D and E in series on each unit exhausting through stack 187,

(5) System F and G- Two (2) 66 ton per hour Conveyors to two (2) Pulverized Coal Storage Bins with a total storage capacity of 30,000 cubic feet, each controlled by a baghouse F and G, exhausting through stack 189 and 190, respectively.

(e) The No. 2 Basic Oxygen Furnace (BOF) Shop, comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling, ladle additive truck hopper loading system having an estimated maximum throughput of 328,000 tons per year of alloy and flux. Emissions from the truck hopper are controlled by a baghouse, which has a flow rate of 75,000-acfm exhausting through stack 150. Emissions from the alloy and flux storage and handling system are controlled by a baghouse, which has a flow rate of 50,000-acfm, exhausting through stack 151. Both baghouses were constructed in 1974.

(2) One (1) Hot metal station containing reladling, desulfurization, and slag skimming operations having an estimated maximum capacity of 4,029,600 tons of hot metal per year. Captured emissions from the hot metal station and charging aisle are controlled by a baghouse having a flow rate of 360,000-acfm, exhausting through stack 152. Original construction was 1974 and an upgrade was completed in August 1994 as part of a consent decree.

(3) Two (2) BOFs, identified as No. 10 and No. 20, and operations including charging, oxygen blowing, tapping, and alloy addition with a total estimated maximum capacity of 4,543,600 tons of hot metal and scrap per year. Captured emissions controlled by two (2) off-gas scrubber systems with flares having a flow rate of 1,500,000-acfm each, exhausting through flare stacks 147 and 148. Construction commenced on this equipment in 1970. Uncaptured emissions exhausting through roof monitor 153 and charging and miscellaneous furnace emissions exhausting through a secondary ventilation scrubber having a flow rate of 194,000-acfm, exhausting through stack 149. The Off-gas scrubber systems were constructed in 1974 and the Secondary Vent scrubber was replaced in 2003.

(4) One (1) ladle metallurgy facility station consisting of alloy addition, electric arc reheat, slag skimming, and raw material handling specifically for the metallurgy station with an estimated maximum throughput of 4,029,600 tons per year of steel. Captured emissions are controlled by a baghouse having a flow rate of 135,000-acfm, exhausting through stack 154. This equipment was constructed in 1985.

(5) One (1) Continuous casting operations consisting of slab casters, and three (3) torch cutoff machines. Leaded emissions from the casters exhaust through the caster fume baghouse, which has a flow rate of 171,000 acfm, exhausting through stack 159. Steam from the water spray cooling exhausts through three (3) vents along the caster, identified as stacks 160, 161, and 162. Fugitive emissions from the casting operations exhaust through a roof monitor, identified as 158. This equipment was constructed in 1985. (Bloom caster at this site is permanently shutdown)

(6) A tundish dump and repair station with leaded emissions controlled by a baghouse, which has a flow rate of 50,000 acfm, exhausting through stack 156. This

equipment was constructed in 1989.

(7) Miscellaneous natural gas combustion used for ladle preheating, exhausting through stack 157, and tundish and ladle shroud preheating and drying, exhausting through No.2 BOF Shop Roof Monitors 155.

(8) Slag skimming into slag pots.

(f) No.4 Basic Oxygen Furnace (BOF) comprised of the following facilities, process equipment, and operational practices:

(1) Flux, alloy and waste oxide briquettes (WOB) unloading, hopper house and storage/handling facility.

(2) Scrap metal unloading/storage (scrap yard) and scrap metal charging box.

(3) Two (2) Hot metal transfer and desulfurization operations having an estimated maximum capacity of 4,222,320 tons of hot metal per year with captured emissions controlled by two (2) baghouses having flow rates of 190,000 and 220,000 acfm, exhausting through stacks 26 and 27. This equipment was constructed in 1977.

(4) Two (2) BOFs, identified as No. 50 and No. 60 and operations including charging, blowing, tapping, flux and alloy additions, and slag skimming with a total estimated maximum capacity of 5,676,366 tons of hot metal and scrap per year with uncaptured emissions exhausting through a roof monitor (stack 29), and captured emissions controlled by a four (4) off-gas scrubber system, exhausting through stack 38. This equipment was constructed in 1966. Charging, tapping, and miscellaneous furnace emissions are controlled by a secondary ventilation baghouse having a flow rate of 600,000 acfm, exhausting through stack 37. This equipment was constructed in 1977 and modified in 1996.

(5) Raw material handling system for the RHOB facility, including hopper house, alloy and flux storage bins having an estimated maximum throughput of 4,700,000 tons per year and dust emissions controlled by a baghouse having a flow rate of 48,100 acfm and exhausting through stack 33.

(6) One (1) RHOB vacuum degasser with natural gas-fired flare for exhaust gas control with an estimated maximum throughput of 4,686,600 tons/year of steel, exhausting through stack 32. This equipment was constructed in 1987.

(7) Ladle and tundish preheaters (stack 36).

(8) Two (2) argon stirring stations and one (1) continuous caster with tundish, caster mold, and casting machine with cutoff, with steam vents exhausting through stacks 24 and 25.

(9) Torch cutoff exhausting into the building (stack 31).

(10) Maintenance and miscellaneous operations associated with the BOF.

(11) Furnace Additives Transfer House Baghouses, exhausting inside the buildings (stacks 28 and 35).

(12) Slag dumping.

(g) No. 1 Lime Plant was constructed in 1973 with an estimated maximum capacity of 569,400 tons per year of lime comprised of the following facilities, process equipment, and operational practices:

(1) Limestone unloading, storage and screening area.

(2) Two (2) Limestone preheaters, two (2) rotary kilns with an estimated maximum heat input rate of 207 MMBtu/hr fueled by natural gas or residual fuel oil, with exhaust from kilns routed back to preheaters and then to a set of multicyclones. The emissions from the multicyclones are controlled by two (2) baghouses exhausting through stacks 45 and 49.

(3) Dust fines are sent to a dust bin, with emissions controlled by a baghouse and exhausting through stack 46.

(4) Ten (10) storage silos receive an estimated maximum of 569,400 tons per year of finished lime, with fines controlled by lime handling baghouses and exhausting through stack 47.

(5) Fugitive control project including loadout spout on rejection bin controlled by existing kiln baghouse, preheater area enclosure around two (2) kiln feed hood/ ram loadout dribbles, preheater area loading spouts for truck loading with displaced air controlled by existing kiln baghouse and ten (10) loading spouts with emissions controlled by baghouse and truck loadout area with exhaust controlled by loadout baghouse and exhausting through stack 48. This equipment was upgraded in 1997.

(h) No. 1 Electric Arc Furnace comprised of the following facilities, process equipment, and operational practices:

(1) Bulk alloy handling: Raw material unloading, piling, and transporting of scrap metal, fluxes, and alloys.

(2) Raw material charging to the electric arc furnace.

(3) One (1) electric arc furnace with excentric bottom tapping (EBT), having an estimated maximum annual capacity of 975,000 tons with emissions controlled by a baghouse having a flow rate of 500,000 acfm exhausting through baghouse roof monitor (141) commencing operation in 1970 and upgraded in 1996.

(4) One (1) ladle metallurgical station constructed in 1989 with a maximum annual capacity of 975,900 tons with emissions controlled by a baghouse having a flow rate of 40,000 acfm exhausting through stack 143.

(5) Five (5) natural gas ladle preheaters constructed in 1990, each has one (1) or two (2) burners with a 15 MMBtu per hour combined maximum heat input and emissions uncontrolled exhausting through stack 140.

(6) One (1) continuous casting and cooling operations exhausting through stacks 144 and 145, respectively.

(7) Slag handling operations.

(8) EAF Shop Roof Monitor (stack 142).

(i) Direct Reduced Iron (DRI) storage and conveying system constructed in 2001, comprised of the following facilities, process equipment, and operational practices:

(1) One (1) enclosed truck/trailer unloading area identified as 213 with a maximum throughput of 400,000 tons per year of DRI.

(2) A DRI conveyor system consisting of:

(A) One (1) 20,000 cu. ft. capacity enclosed DRI storage silo with excess air vented through the roof and then through one of the bin vents.
(B) One (1) horizontal trough belt stocking conveyor.
(C) Multiple Delivery Conveyors.

(3) Emission control system for (1) and (2) to remove particulate matter consisting of:

(A) Bin Vent Filter No. 1 (210)
(B) Bin Vent Filter No. 2 (211)
(C) Bin Vent Filter No. 3 (212)

(j) 80" Hot Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) No. 4 Walking Beam Furnace, with an estimated maximum heat input rate of 720 MMBtu/hr, equipped with low NOx burners and using natural gas as fuel, exhausting through stack 101 and 102, installed in 2001.

(2) One (1) No. 5 Walking Beam Furnace, with an estimated maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 107, installed in 1995.

(3) One (1) No. 6 Walking Beam Furnace, with an estimated maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 108, installed in 1995.

(4) One (1) Hot Rolling Mill Operation, including roughing mill with cooling water spray, crop shear and finishing stands exhausting to roof monitor 109.

(k) 12" Bar Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) Billet Inspection Line Shotblaster, installed in 1994 with emissions controlled by a baghouse having an estimated maximum flow rate of 5000 acfm vented inside the building.

(2) One (1) Billet Grinding installed in 1977 exhausting through stack 87.

(3) One (1) natural gas fired Billet Reheat Furnace, installed in 1977, having an estimated maximum heat input of 375 MMBtu/hr, exhausting through stack 89

(4) One (1) 23 Stand Rolling Mill exhausting to roof monitor 88.

(l) No. 3 Cold Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) No. 4 Pickling Line, constructed in 1958, including acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 178.

(2) No. 5 Picking Line, including scale breaker mill, acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 176.

(3) 56 inch Tandem Mill (4 Stands) controlled by a mist eliminator exhausting through stack 177.

(4) 80 inch Tandem Mill (5 Stands) controlled by a mist eliminator exhausting through stack 175.

(5) Temper Mill No. 28 exhausting through stack 180.

(6) Temper Mill No. 29 exhausting through stack 181.

(m) Coated Products comprised of the following facilities, process equipment, and operational practices:

(1) No. 3 Galvanizing Line constructed in 1955, including:

(A) One (1) natural gas fired Non-Oxidizing Furnace with an estimated maximum heat input of 62 MMBtu/hr, equipped with recuperators waste gas burners exhausting through stack 81.

(B) One (1) natural gas fired reducing furnace with an estimated maximum heat input of 12.8 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented inside the building (open roof monitor-81A).

(2) No. 5 Galvanizing Line constructed in 1968, including:

(A) One (1) natural gas fired Radiant tube reducing furnace utilizing recuperative radiant tube burners with a an estimated maximum heat input of 112.6 MMBtu/hr, exhausting through stack 182.

(B) One (1) natural gas fired Galvanneal Furnace with an estimated maximum heat input of 36 MMBtu/hr, exhausting inside the building (open roof monitor)-182A.

(3) No. 4 Aluminizing Line constructed in 1955, including:

(A) One (1) natural gas fired Oxidizing Furnace with an estimated maximum heat input of 27 MMBtu/hr exhausting through stack 84.

(B) One (1) natural gas fired 4-line radiant tube reducing furnace section with an estimated maximum heat input of 19.14 MMBtu/hr, equipped with low NOx twin regenerative burners, exhausting through stack 84.

(C) hot dip Al/Si Pot, roll preheater and premelt furnace.

(4) No. 1 Normalizer constructed in 1957, including:

(A) One (1) natural gas fired reducing furnace with 193 natural gas fired Eclipse SER burners with a total heat input of 31.652 MMBtu/hr exhausting through stack 183.

(B) One (1) natural gas fired flame heater furnace with an estimated maximum heat input of 28 MMBtu/hr annealing furnace exhausting through stack 183

(C) One (1) acid cleaning tank using hydrochloric acid and one (1) cascade rinse tank with emissions controlled by a fume scrubber and exhausting through stack 184.

(5) No. 3 Continuous Anneal Line constructed in 1982, including:

(A) One (1) natural gas fired Annealing Furnace and One (1) natural gas fired Age Furnace with an estimated total maximum heat input of 108 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented through stack 173.

(B) One (1) acid cleaning tank using hydrochloric acid with emissions controlled by a fume scrubber and exhausting through stack 174.

(6) Batch Anneal Facilities including:

(A) No. 5 Batch Anneal constructed in 1958, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with an estimated maximum heat input of 136 MMBtu/hr exhausting through stack 112.

(B) No. 6 Batch Anneal constructed in 1970, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with an estimated maximum heat input of 205 MMBtu/hr exhausting through stack 113.

(n) Utilities comprised of the following facilities, process equipment, and operational practices:

(1) No. 2 AC Station including:

(A) Three (3) Boilers identified as 211-213, fired by natural gas and blast furnace gas from No. 5 and No. 6 blast furnaces:

(i) Boiler 211 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 125 and 126.

(ii) Boiler 212 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 127 and 128.

(iii) Boiler 213 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1949 exhausting through stacks 129 and 130.

(B) Two (2) Blast Furnace Gas Flares to burn excess blast furnace gas from No. 5 and No. 6 Blast Furnaces exhausting through stack 131.

(C) Nine (9) turbo blowers and five (5) electricity generators.

(2) No. 5 Boilerhouse installed in 1976, including Boilers 501-503 fired by blast furnace gas from No. 7 blast furnace and mixed gas, each with an estimated maximum heat input of 520 MMBtu/hr exhausting through stack 134. The boilers produce steam, which is used in three turbo blowers to produce blast air, at generators to produce electrical power, and for general plant use.

(o) Shops comprised of the following facilities, process equipment, and operational practices:

(1) Mold Foundry Building: Pugh Ladle Car Preparation, dekishing, debricking and drying fired by natural gas (44) and Pugh ladle lancing fired by natural gas with emissions controlled by former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle pigging emissions resulting from the adjacent contractor's operation.

(2) No. 6 Roll shop for 12 inch bar mill including shotblaster with emissions controlled by a baghouse and exhausting through stack 200.

(3) Electric Shop including shotblaster with emissions controlled by a baghouse and exhausting through stack 201, blaster baghouse unloading, paint booth, varnish dip tanks and undercutting booth.

(4) No. 4 Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 203, Wheelabrator shotblaster with emissions controlled by a baghouse and exhausting through stack 204.

(5) No. 4 A Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 205 and Pangborn shotblaster with emissions controlled by a baghouse and exhausting through stack 206.

(6) No. 5 Roll Shop.

(7) Mobile Equipment shop including refrigerant recovery and parts cleaning.

(8) Equipment Repair Shop including Machine Shop (Plant 2).

(9) Mason Building Shop.

(10) Refrigeration Shop.

(11) Fabrication and Repair Shop (Plant 1).

(p) Storage Vessels:

(1) One (1) 21,380 gallon tank (T19K1) containing Diesel No. 2, located at the “E” Yard – Internal Logistics, constructed prior to 1972.

(2) One (1) 21,380 gallon tank (T-8H1) containing Diesel No. 2, located at the “B” Yard – 2 BOF, constructed prior to 1972.

(3) One (1) 10,000 gallon tank (T20K-1) containing Diesel No. 2, located at the Main Shop Fueling Station – Internal Logistics, constructed in 1997.

(4) One (1) 8,000 gallon tank (T02E-1) containing Diesel No. 2, located south of the bar company scrap yard - 12” Bar Mill constructed in 1999.

(5) One (1) 7,500 gallon tank (T1G-1) containing Diesel No. 2, located north of the Electric Furnace Billet Caster constructed in 1999.

(6) One (1) 6,000 gallon tank (T25E-1) containing Diesel No. 2, located at the No. 7 Blast Furnace Emergency Pump House, constructed in 1994.

(7) One (1) 5,000 gallon tank (T17P-1) containing Diesel No. 2, located at the 80” Hot Strip Mill coil carrier fuel station, constructed in 1994.

(8) One (1) 4,200 gallon tank (T10-200) containing Diesel No. 2, located at the No. 3 Cold Strip East bulk oil storage area constructed in 1970.

(9) One (1) 3,355 gallon tank (T18E-1) containing Diesel No. 2, located at the #4 BOF Mobile Equipment Shop, constructed in 1994.

(10) Two (2) 3,000 gallon tanks (T10-232a & T10-232b) containing Power Clean, located at the No. 3 Cold Strip East, Nos. 4 and 5 Hydraulic System, constructed in 1970.

(11) One (1) 130,000 gallon tank (T-17F1) containing Reclaimed oil, located at the Lime Plant, constructed in 1973.

(12) One (1) 1,016,000 gallon tank (T-6E1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1992.

(13) One (1) 1,016,000 gallon tank (T-6F1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(14) One (1) 1,016,000 gallon tank (T-6F2) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(15) One (1) 500,000 gallon tank (T-6F3) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1975.

(16) One (1) 100,000 gallon tank (T-02F1) containing #6 fuel oil, located at the 12" Bar Mill, constructed in 1977.

(17) Two (2) 30,000 gallon tanks (T11-12a & T11-12b) containing regenerated Hydrochloric Acid located north of bulk storage building No. 3 Cold Strip West, designated as #1 elevated tank and #2 elevated tank, constructed in 1970.

(18) Two (2) 30,000 gallon tanks (T11-12c & T11-12d) containing regenerated Hydrochloric Acid located west of bulk storage building No. 3 Cold Strip West, designated as Tank #4 and Tank #5, constructed in 1999.

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

Mittal Steel USA Inc. - Indiana Harbor East Plant (Plant ID 089-00316) also includes the following insignificant activities as defined in 326 IAC 2-7-1(21), with specifically regulated insignificant activities identified in Section D.16:

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

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

(2) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

(3) 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.

(b) 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.

(c) 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.

(d) The following VOC and HAP storage containers:

(1) 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]

(2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

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

(f) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(h) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-5]

(i) Cleaners and solvents characterized as follows:

(1) 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;

(2) 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.

(j) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.8-1-2]

(k) Closed loop heating and cooling systems.

(l) Rolling oil recovery systems.

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

(n) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the Permittee, that is, an on-site sewage treatment facility.

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

(p) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.

(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

(q) Quenching operations used with heat treating processes.

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

(s) Heat exchanger cleaning and repair.

(t) Process vessel degreasing and cleaning to prepare for internal repairs.

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

(v) Conveyors as follows:

(1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;

(2) Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;

(3) Uncovered coal conveying of less than or equal to 120 tons per day.

(4) Underground conveyors.

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

(x) 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.

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

(z) 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.

(aa) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(bb) Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to 450 cubic inches by volume.

(cc) On-site fire and emergency response training approved by the department.

(dd) 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]

(ee) Purge double block and bleed valves.

(ff) Filter or coalescer media change out.

(gg) Vents from ash transport systems not operated at positive pressure.

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

(ii) Any unit emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP

(1) Process Water Cooling Towers (chlorine addition)

A.5 Fugitive Dust Sources

Mittal Steel USA Inc. - Indiana Harbor East Plant (Plant ID 089-00316) also includes 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 (except Crusher Fugitive Emissions)

(j) Crusher Fugitive Emissions

(k) Material Processing Facility Building Openings

(l) Dust Handling Equipment

A.6 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source 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)][13-15-3-6(a)]

(a) This permit, T089-6577-00316, 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 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, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 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.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)]

(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 “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. One (1) certification may cover multiple forms in one (1)

submittal.

(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) For compliance certification purposes, the term "source" refers to Mittal Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316).

(b) The Permittee shall annually submit a compliance certification report which addresses the status of Mittal Steel USA Inc. – Indiana Harbor East's (Plant ID 089-00316) 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

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

(c) 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.

(d) 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 Mittal Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316), 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 Mittal Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316).

The submittal by the Permittee does require the certification by the "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.

(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 or Part 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 No.: 317-233-0178 (ask for Compliance Section)
Facsimile No.: 317-233-6865

Northwest Regional Office Telephone Number: (219) 757-0265
Northwest Regional Office Facsimile Number: (219) 757-0267

(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 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, as well as the Federal Statutes from the Clean Air Act and the federal rules from 40 CFR, 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 T089-6577-00316 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 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

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.15 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 "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, 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, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 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, and 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 "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

(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.17 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 "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.18 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) 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.19 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, which document all such changes and trades that are subject to 326 IAC 2-7-20(b), (c), 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)(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 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.

B.20 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2][326 IAC 2-3-2]

(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.21 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, 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 13-14-2-2, 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 13-14-2-2, 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 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample 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 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 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.23 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. 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.24 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.

B.25 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:

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

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

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. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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 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 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.6 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.7 Performance Testing [326 IAC 3-6]

(a) All testing required pursuant to the conditions of this permit 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 for such required testing, 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) For such required testing 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), such test reports for testing required by this permit 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.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 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. Such 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.9 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.10 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8)]

(a) Pursuant to 326 IAC 326 IAC 6.8-8-1 (formerly 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 6.8-8-5 (formerly 326 IAC 6-1-10.1 (p)) through 326 IAC 6.8-8-7 (formerly 326 IAC 6-1-10.1 (r)) or applicable procedures in the CCP.

(b) Pursuant to 326 IAC 6.8-8-8 (formerly 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 department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6.8-8 (formerly 326 IAC 6-1-10.1), failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8 (formerly 326 IAC 6-1-10.1).

C.11 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.12 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.13 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 shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

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

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, , the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) 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 approved

ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 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.15 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.16 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.17 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 purposes of Part 70 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.18 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 (or at a source with Plant-wide Applicability Limitation (PAL)), 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) Before beginning actual 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.19 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 probable 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. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 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.0 FACILITY OPERATION CONDITIONS-

No.7 Blast Furnace operation modification project

Facility Description [326 IAC 2-7-5(15)]:

Increase in production of hot metal by detailed reline project and addition of 4th stove:

(a) Modifications to existing Blast Furnace identified as No.7, by a detailed reline and the addition of a fourth blast air heating stove to provide additional blast capacity, exhausting to stack 170. This modification is intended to increase production of hot metal from this furnace by 772,620 tons per year.

(b) Additional 274,178 tons per year of pulverized coal for injection into the No.7 Blast Furnace will be supplied by the existing pulverized coal injection system without any changes to the existing equipment.

(c) The usage of iron bearing self-fluxing pellets as raw material for molten metal production at No.7 Blast Furnace will increase by 1,295,275 tons per year.

(d) Increased consumption of coke at No.7 Blast Furnace by 112,132 tons per year, either from the on-site coke plant operated by Indiana Harbor Coke Company or purchased from an offsite producer.

(e) Utilization of an additional 28,082 MMSCF per year of blast furnace gas at the No.5 Boiler House to generate steam. This usage of additional blast furnace gas will likely reduce the use of natural gas at the No.5 Boiler House

(f) Any additional blast furnace gas, which cannot be utilized, will be consumed in the three velocity nozzle flare identified as stack 195 at No.7 Blast Furnace.

(g) Increased lime production at No.1 lime plant and consumption at No.2 and/or No.4 BOF shop by 29,785 tons per year. This will result in an increase of natural gas usage by 146 MMSCF per year.

(h) The increased hot metal production at No.7 Blast Furnace will be processed at the existing No.2 and/or No.4 Basic Oxygen Furnaces (BOF) shops to produce additional steel. The steel production will increase by approximately 772,620 tons per year.

(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.0.1 Non-applicability of Major Modification [326 IAC 2-2-1 (x)]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, in order to make requirements of 326 IAC 2-2-1 (x) (Major Modification), not applicable to this modification, the cumulative emissions from emissions units listed in D.0.5 of particulate matter (PM), oxides of nitrogen (NO_x) and Lead (Pb) associated with (when handling material to or from) the No.7 Blast Furnace operations shall be less than the following limitations:

Pollutant	Emissions (in tons per 12 consecutive month period with compliance demonstrated at the end of each month)
PM	1156.62
NOx	2986.6
Pb	0.94

D.0.2 Non-applicability of Major Modification [326 IAC 2-3-1 (s)]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, in order to make the requirements of 326 IAC 2-3-1 (s) (Major Modification), not applicable to this modification, the cumulative emissions from emissions units listed in D.0.5 of particulate matter less

than 10 microns diameter (including filterable and condensable components) (PM_{10}) and sulfur dioxide (SO_2) associated with (when handling material to or from) the No.7 Blast Furnace operation shall be less than the following limitations:

Pollutant	Emissions (in tons per 12 consecutive month period with compliance demonstrated at the end of each month)
PM_{10}	1460.42
SO_2	2,336.2

D.0.3 Volatile Organic Compounds (VOC)– non-applicability of De-minimis [326 IAC 2-3-1 (l)]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, in order to make the requirements of 326 IAC 2-3-1 (l) (De-minimis), not applicable to this modification, the cumulative emissions from emissions units listed in D.0.5 of VOC associated with (when handling material to or from) the No.7 Blast Furnace operation shall be less than 54.44 tons per 12 consecutive month period with compliance demonstrated at the end of each month.

D.0.4 Carbon Monoxide (CO)– Air quality impacts and increment consumption [326 IAC 2-2-4, 5 and 6]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, 326 IAC 2-2-4, 2-2-5, 2-2-6 (PSD Requirements: Air quality analysis, Air quality impacts and increment consumption), the cumulative emissions from emissions units listed in D.0.5 of CO associated with (when handling material to or from) No.7 Blast Furnace operation shall not exceed 33968.54 tons per 12 consecutive month period with compliance demonstrated at the end of each month

D.0.5 Emissions units subject to the emissions limitations [326 IAC 2-2-1 (x)] [326 IAC 2-3-1 (s)] [326 IAC 2-3-1 (l)] [326 IAC 2-2-4, 5 and 6]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, the emissions limitations shown in D.0.1, D.0.2, D.0.3 and D.0.4 apply to the combined emissions from the following emissions units only to the extent that the operation and throughput of these emissions units can be directly attributed to (when handling material to or from) the operation and throughput at the No.7 Blast Furnace:

1. No.7 Blast Furnace:
   - (a) Casthouse No.7 Blast Furnace controlled by:
     - (A) east baghouse exhausting to stack 167
     - (B) west baghouse exhausting to stack 166
   - (b) Coke screening station controlled by baghouse exhausting to stack 169
   - (c) Stockhouse coke handling controlled by baghouse exhausting to stack 172
   - (d) Stockhouse pellet handling controlled by baghouse exhausting to stack 168
   - (e) No.7 Blast Furnace stoves exhausting to stack 170
   - (f) Slag pit operation
   - (g) Slag granulator and pelletizer operation
   - (h) Gas Cleaning System
   - (i) Flare stack 195
   - (j) Roof Monitor 171

2. No.5 Boiler House:
   No.5 Boiler House exhausting to stack 134, to the extent increases in the usage of blast furnace gas from No.7 Blast Furnace at this unit.

3. Pulverized Coal Injection plant:
   - (a) Coal transfer A controlled by baghouse exhausting to stack 185
   - (b) Coal storage C controlled by baghouse exhausting to stack 186
   - (c) Coal pulverizer D controlled by baghouse exhausting to stack 187
   - (d) Coal pulverizer E controlled by baghouse exhausting to stack 188
   - (e) Coal storage F controlled by baghouse exhausting to stack 189
   - (f) Coal storage G controlled by baghouse exhausting to stack 190
   - (g) Coal unloading system exhausting to stack 192

4. No.1 Lime Plant:
   (a) Lime plant storage silo controlled by baghouse exhausting to stack 47
   (b) No.1 and No.2 Lime Kiln controlled by two (2) baghouses exhausting to stack 45 and 49
   (c) Lime plant fugitive control micro-pulse controlled by baghouse exhausting to stack 46
   (d) Lime plant truck loadout controlled by baghouse exhausting to stack 48

5. No.2 BOF shop:
   (a) No.10 Basic Oxygen Furnace controlled by scrubber exhausting to stack 147
   (b) No.20 Basic Oxygen Furnace controlled by scrubber exhausting to stack 148
   (c) Ladle metallurgy facility station controlled by baghouse exhausting to stack 154
   (d) Secondary ventilation system for No.2 BOF shop controlled by scrubber exhausting to stack 149
   (e) Charge Aisle and Hot Metal Station controlled by baghouse exhausting to stack 152
   (f) Truck and ladle hopper controlled by baghouse exhausting to stack 150
   (g) Flux storage batch controlled by baghouse exhausting to stack 151
   (h) Gas Cleaning System
   (i) No.2 BOF Roof Monitor 153
   (j) No.2 BOF Caster Roof Monitor 158

6. No.4 BOF shop:
   (a) No.4 BOF shop off gas controlled by scrubber exhausting to stack 38
   (b) Secondary ventilation system for No.4 BOF shop controlled by a baghouse exhausting to stack 37
   (c) Hot Metal Station baghouse (North) exhausting to stack 26
   (d) Hot Metal Station baghouse (South) exhausting to stack 27
   (e) RHOB condensers stack exhausting to stack 32
   (f) RHOB material handling stack exhausting to stack 33
   (g) Gas Cleaning System 4 BOF
   (h) Gas Cleaning System 4 BOF RHOB
   (i) Furnace additive bin loading exhausting to stack 28
   (j) Torch cut exhausting to stack 31
   (k) Furnace additive hopper house exhausting to stack 35
   (l) No.4 BOF Roof Monitor 29

D.0.6 Operation Condition [326 IAC 2-2-3] [326 IAC 2-2-1 (x)] [326 IAC 2-3-1 (s)] [326 IAC 2-3-1 (l)] [326 IAC 2-2-4, 5 and 6]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, 326 IAC 2-2-3, 326 IAC 2-2-1 (x), 326 IAC 2-3-1 (s), 326 IAC 2-3-1 (l), 326 IAC 2-2-4, 5 and 6, the production of hot molten metal from the No.7 Blast Furnace shall not exceed four million four hundred and seventeen thousand (4,417,000) tons per 365 consecutive days, with compliance demonstrated at the end of each day (a consecutive 24 hour period).

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

D.0.7 Emissions Factors and Performance Testing

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003:

(a) The Permittee shall use the emissions factors documented in Appendix-A of this permit in conjunction with the actual throughput of the emissions units in D.0.5 directly attributed to the operation of No.7 Blast Furnace to determine compliance with emissions limitations in conditions D.0.1, D.0.2, D.0.3 and D.0.4.

(b) Pursuant to IC 13-15-7-1, IC 13-15-7-2, 326 IC 2-1.1-9(2) and 326 IAC 2-1.1-11 the IDEM, OAQ reserves the authority to require the Permittee to conduct performance tests to verify the emissions factors in Appendix-A of this permit.

(c) After issuance of this permit, if the performance test results indicate a discrepancy between the emission factors in Appendix-A and the actual emissions rate observed during the test, the Permittee shall inform IDEM, OAQ, Permits Branch of such variation within 90 days of the submission of performance test report to IDEM.

(d) Pursuant to IC 13-15-7-1, IC 13-15-7-2 and 326 IC 2-1.1-9(2), the IDEM, OAQ may re-evaluate the permit conditions and emissions factors in Appendix-A. IDEM, OAQ may, at its discretion, use the authority under IC 13-15-7-2, IC 13-15-7-2 and/or 326 IAC 2-1.1-9(2) to re-open and revise the permit to more closely reflect the actual performance test results using permit amendment or modification procedures.

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

D.0.8 Record Keeping Requirements

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003:

(a) To document compliance with D.0.6, the Permittee shall keep records of molten metal produced at the No.7 Blast Furnace in terms of tons of metal per three hundred and sixty five (365) days. These records shall be kept for at least a period of 60 months.

(b) In order to document compliance with conditions D.0.1, D.0.2, D.0.3, D.0.4 and D.0.5 the Permittee shall:

(1) Maintain records of the throughput or production that is directly attributed to (when handling material to or from) the operation and throughput at No.7 Blast Furnace at the emissions units listed in D.0.5.

(2) Maintain records of the emissions on monthly basis using the emissions factors in Appendix A in conjunction with throughput or production in item (1) of this sub-condition to calculate emissions from No.7 Blast Furnace operation modification project on monthly basis.

(3) These records shall be kept for at least a period of 60 months.

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

D.0.9 Reporting Requirements

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, in the event the emissions recorded per D.0.8 (b)(2) in any consecutive 12 month period exceed the emissions limitations specified in D.0.1, D.0.2, D.0.3 or D.0.4, the Permittee shall submit detailed report along with pertinent records to the addresses listed in Section C - General Reporting Requirements and IDEM, OAQ, Permits Branch, within sixty (60) days of end of period 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.0.10 Permit Expiration Date [326 IAC 2-2-8(a)(1)]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-8(a)(1) (PSD Requirements: Source Obligation) Significant Source Modification 089-16966-00316 to construct shall expire if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is discontinued for a continuous period of eighteen (18) months or more, or if construction is not completed within reasonable time. IDEM may extend the eighteen (18) month period upon satisfactory showing that an extension is justified.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) No. 5 and 6 Blast Furnace processes, with a combined estimated maximum production rate of 2,506,000 tons per year of hot iron metal, comprised of the following facilities, process equipment and operational practices:

(1) One (1) Pulverized Coal Storage Bin with baghouse H (191), having a 400 ton storage capacity, estimated maximum throughput of 325,000 tons per year of pulverized coal, and a flow rate of 3500 acfm, exhausting through stack 191 and constructed in 1991.

(2) No. 5 Blast Furnace, installed in 1939 consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 5 Blast Furnace Stoves (3 units) with an estimated maximum combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 5 Blast Furnace and exhausting combustion emissions through stack 5.

(C) No. 5 Blast Furnace with an integral blast furnace gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 5 Blast Furnace Stoves.

(D) No. 5 Blast Furnace Casthouse with casting emissions controlled by two (2) No. 5 Blast Furnace Casthouse Collection System Scrubbers having a flow rate of 40,000 acfm, exhausting through stack 1 with construction upgrades in 1986 and 1991.

(E) One (1) No. 5 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(3) No. 6 Blast Furnace, installed in 1942, consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 6 Blast Furnace Stoves (4 units) with an estimated maximum combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 6 Blast Furnace and exhausting combustion emissions through stack 6.

(C) No. 6 Blast Furnace with an integral gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 6 Blast Furnace Stoves.

(D) No. 6 Blast Furnace Casthouse with casting emission controlled by No. 6 Blast Furnace Casthouse Collection System Scrubber having a flow rate of 40,000 acfm, exhausting through stack 2, with a construction upgrade in 1986 on this equipment.

(E) No. 6 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

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 PM10 emission requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), the allowable PM10 emissions from No.5 and No. 6 Blast Furnace processes shall not exceed the following:

(a) PM10 emissions from pulverized coal storage Bin Vent Filter H (191) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

(b) PM10 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (stack 5), shall

not exceed 0.016 pounds/MMBtu and 4.70 pounds per hour.

(c) PM10 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (stack 6), shall not exceed 0.016 pounds/MMBtu and 3.64 pounds per hour.

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

D.1.2 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2), No. 5 Blast Furnace Casthouse Collection System Scrubbers (1), No. 6 Blast Furnace Casthouse Collection System Scrubber (2), the No. 5 Blast Furnace Casthouse Roof Monitor and No. 6 Blast Furnace Casthouse Roof Monitor shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

D.1.3 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a)(3), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (stack 5) shall not exceed 0.140 pounds per MMBtu and 41.02 lbs/hour.

(b) SO_2 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (stack 6) shall not exceed 0.140 pounds per MMBtu and 41.02 lbs/hour.

D.1.4 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 this facility and any control devices.

Compliance Determination Requirements

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with D.1.1 (a), the coal storage bin baghouse H (191) for PM control shall be in operation and control emissions from the Pulverized Coal Storage Bin at all times that the No. 5 and No. 6 Blast Furnaces 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, replaced, blanked or isolated. 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.1.6 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the scrubber and the flow rate of the scrubber used in conjunction with the No. 5 Blast Furnace Casthouse Collection System North Scrubber (1) and South Scrubber (1), and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) at least once per day when the applicable Blast Furnace Casthouse is in operation and is venting to the atmosphere. The scrubbers shall be operated as follows:

(a) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse North scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow

rate of the scrubber is below the minimum of 22 liters per second 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 reading that is outside the 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) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse South scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of 22 liters per second 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 reading that is outside the 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.

(c) When for any one reading, the pressure drop across the No. 6 Blast Furnace Casthouse scrubber (2) is outside the normal range of 6.0-9.0kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of 20 liters per second 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 reading that is outside the 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.

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.1.7 Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, 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.1.8 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.1.3, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b) (1).

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

D.1.9 Record Keeping Requirements

(a) To document compliance with Conditions D. 1.3 and D.1.8, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No. 5 and No. 6 Blast Furnaces.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) To document compliance with Condition D.1.6, the Permittee shall maintain once per day records of the pressure drop across the scrubber and minimum flowrate during normal operation when venting to the atmosphere.

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

D.1.10 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of the limits in Condition D.1.3 in order to document compliance with Conditions D. 1.3 and D.1.9 (a). The quarterly report 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. 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 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(b) No. 7 Blast Furnace process is comprised of the following facilities, process equipment and operation practices:

(Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for the maximum production rate to increase to 4,417,000 tons per year of molten metal)

(1) Raw material handling and stockhouse material handling for receiving, storage and delivery of blast furnace raw material. The handling operation has an estimated maximum throughput of 7,704,971 tons of iron ore pellets per year; stored in four (4) storage bins with 8073 tons total capacity; 1,514, 604 tons of coke per year, stored in four (4) storage bins with 1314 tons total capacity; and 1,082,736 tons of flux and miscellaneous material per year, stored in six (6) storage bins with 4200 tons total capacity. Emissions are controlled by two (2) baghouses: (1) identified as 168-stockhouse pellet and flux handling baghouse, having a flow rate of 82,500 acfm and (2) identified as 172-stockhouse coke handling baghouse having a flow rate of 27, 500 acfm.

(2) Coke screening operation with emissions controlled by a baghouse, previously identified as 169, having a flow rate of 47,116 acfm and an average screening capacity of 400 tons per hour. (This equipment is not currently operating)

(3) One (1) blast furnace, identified as No. 7, constructed in 1980 with blast furnace gas processed by a gas cleaning system and equipped with three (3) flares, each with a 1.15 MMBtu per hour igniter capacity of flaring one-third of the maximum generated blast furnace gas through stack 195.

(4) No. 7 Blast Furnace Casthouse constructed in 1980 with casting emissions controlled by two (2) baghouses: identified as 166 (West baghouse) having a flow rate of 500,000 acfm; and 167 (East baghouse) having a flow rate of 300,000 acfm. Emissions from No. 7 blast furnace casthouse are also controlled by trough and runner covers and hoods over the tap holes and pugh ladle addition points.

(5) No. 7 Blast Furnace stoves (3 units) using blast furnace gas and natural gas as fuel with a an estimated maximum combined heat input capacity of 953 MMBtu/ hr and emissions exhausting through stack 170. Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for a blast capacity increase and the construction of a fourth (4th) stove.

(6) One (1) Casthouse Roof Monitor 171.

(7) One (1) coke transfer tower (No.4), identified as164, installed in 1997, with a an estimated maximum throughput of 4020 tons of dry coke per day, enclosed and controlled by one (1) baghouse, and exhausting inside the tower.

(8) One (1) coke transfer point, identified as 169, installed in 1997, with a an estimated maximum throughput of 4020 tons of dry coke per day, enclosed and controlled .

(9) Slag pits

(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 Lake County PM10 emission requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), PM10 and total suspended particulate (TSP) emissions from the No. 7 Blast Furnace process including the increased capacity shall not exceed the following:

(a) PM10 emissions from the No. 7 blast furnace stockhouse pellet baghouse (168) shall not exceed 0.0052 grains per dry standard cubic foot and 4.00 pounds per hour.

(b) TSP emissions from the No. 7 blast furnace stockhouse coke baghouse (172) shall not

exceed 0.01 grains per dry standard cubic foot and 2.00 pounds per hour.

(c) TSP emissions from the No. 7 blast furnace coke screening baghouse (169) shall not exceed 0.007 grains per dry standard cubic foot and 4.200 pounds per hour.

(d) PM10 emissions from the No. 7 blast furnace Casthouse West canopy baghouse (166) shall not exceed 0.003 grains per dry standard cubic foot and 11.22 pounds per hour.

(e) TSP emissions from the No. 7 blast furnace Casthouse East baghouse (167) shall not exceed 0.011 grains per dry standard cubic foot and 22.00 pounds per hour.

(f) PM10 emissions from the stack serving No. 7 blast furnace stove (3 units) stack (170) shall not exceed 0.0076 pounds/MMBtu and 6.32 pounds per hour.

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

D.2.2 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2), the No. 7 Blast Furnace Casthouse Roof Monitor (171) and No. 7 Blast Furnace flare (195) shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

D.2.3 Opacity [326 IAC 6.8-3]

Pursuant to 326 IAC 6.8-3 (formerly 326 IAC 6-1-10.1(e)), the following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict. The opacity for the No. 7 Blast Furnace operations (Casthouse Roof Monitor (171)) shall not exceed fifteen percent (15%), six (6) minute average.

D.2.4 Opacity

Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, visible emissions from the coke transfer towers controlled by baghouses (Stack IDS 268 and 269) shall not exceed an opacity of five percent (5%), six minute average.

D.2.5 Particulate Matter (PM) [326 IAC 2-3]

Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, PM emissions from the coal and coke handling equipment shall be limited as follows:

(a) the coke transfer tower (Stack ID 268) shall not exceed 0.075 pounds per hour, and

(b) the coke transfer point (Stack ID 269) shall not exceed 0.092 pounds per hour.

D.2.6 Carbon Monoxide (CO) - Best Available Control Technology [326 IAC 2-2-3]

(a) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the carbon monoxide emissions from the various stacks associated with the No.7 Blast Furnace shall not exceed the following limitations:

Stack ID, associated equipment	Type of fuel combusted at the equipment	CO emissions limitations (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	13.7
	Natural gas	84
	Combination gas (a mix of natural gas and blast furnace gas)	$\frac{\text{13.7 X Usage of BFG (MMSCF)+ 84 X Usage of NG (MMSCF)}}{\text{Total usage of BFG and NG (MMSCF)}}$

Stack ID, associated equipment	CO emissions limitations	Units
167, Cast house No.7 Blast Furnace east baghouse	0.56	pound/ton of hot metal produced
166, Cast house No.7 Blast Furnace west baghouse	0.56	pound/ton of hot metal produced

(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under condition D.2.14 show that the CO emission limitations in condition D.2.6 (a) are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emissions limitations in D.2.6 (a). The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to this permit modification.

D.2.7 Operation Condition – Best Available Control Technology [326 IAC 2-2-3]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the production of hot molten metal from the No.7 Blast Furnace shall not exceed four million four hundred and seventeen thousand (4,417,000) tons per 365 consecutive days, with compliance demonstrated at the end of each day (a consecutive 24 hour period).

D.2.8 Operation Restriction – Curtailment of slag pits operation [326 IAC 2-2][326 IAC 2-3]

In order to make requirements of 326 IAC 2-2 (PSD) not applicable, on and after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, the operation of the slag pits at No.7 Blast Furnace shall be curtailed to 227,472 tons of slag processed at these facilities per 12 consecutive month period with compliance demonstrated at the end of each month.

D.2.9 Operational Condition [326 IAC 2-2][326 IAC 2-3]

Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, the requirements below shall be met to obtain the necessary credit for netting requirements:

(a) The following facilities must be permanently shutdown:

(1) the No. 4 BOF Teeming Facility,

(2) the foundry operations in the Mold Foundry Building,

(3) the No. 3AC Station Boiler 305,

(4) the 76 inch hot strip mill,

(5) the 100 inch plate mill,

(6) the No. 4 slabber mill (soaking pits 1-45), and the No. 4 slabber scarfer.

D.2.10 No.7 Blast Furnace Specific Control Requirements [326 IAC 6.8-7-5]

Pursuant to 326 IAC 6.8-7-5 (formerly 326 IAC 6-1-10.1(k)(5)(F)), tapping emissions from the No. 7 blast furnace casthouse shall be controlled by a hood vented to a baghouse. Canopy hoods shall be installed above each of the four (4) furnace tap holes. The hoods shall be ducted to a new three hundred seventy thousand (370,000) actual cubic feet per minute minimum design flow rate baghouse. Each hood shall be located just above the casthouse crane and extend via vertical sheeting to the casthouse roof. The system shall provide a minimum of one hundred eighty-five thousand (185,000) actual cubic feet per minute of air flow (fume capture) to each hood, when the corresponding tap hole is being drilled or plugged.

D.2.11 Carbon Monoxide [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), the No.7 Blast Furnace waste gas stream shall be 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

D.2.12 Sulfur Dioxide [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the SO_2 emissions from these units shall not exceed the following:

(a) SO_2 emissions from the No. 7 blast furnace stoves stack (170) shall not exceed 0.195 pounds per MMBtu and 162 lbs/hour.

(b) SO_2 emissions from the No. 7 blast furnace canopy shall not exceed 0.220 lbs/ton and 50.400 lbs/hour.

(c) SO_2 emissions from the No. 7 blast furnace casthouse baghouse shall not exceed 0.220 lbs/ton and 50.400 lbs/hour.

D.2.13 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 this facility and any control devices.

Compliance Determination Requirements

D.2.14 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

(a) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on the No. 7 blast furnace (West baghouse) (166) utilizing a testing method approved by the Commissioner to show compliance with conditions D.2.1, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-4-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(b) Within thirty (30) months of issuance of this permit, or 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 TSP testing on the No. 7 blast furnace (East baghouse) (167) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.1, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-4-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

D.2.15 Carbon monoxide emissions – Compliance Requirements [326 IAC 2-2-3]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the carbon monoxide emissions, associated with the No.7 Blast Furnace shall be minimized, by utilizing the Blast Furnace Gas (BFG) produced at No. 7 Blast Furnace in the stoves at No.7 Blast Furnace or at No. 5 Boiler House. When the excess BFG (not burned in the stoves) cannot be beneficially used for steam generation, it will be burned at the No. 7 Blast Furnace flare stack (195).

D.2.16 Particulate Control [326 IAC 2-7-6(6)]

(a) The No. 7 blast furnace stockhouse pellet baghouse (168) for PM control shall be in operation at all times that the stockhouse pellet process is in operation.

(b) The No. 7 blast furnace stockhouse coke baghouse (172) for PM control shall be in operation at all times that the No. 7 blast furnace coke screening process is in operation.

(c) The No. 7 blast furnace casthouse west baghouse (166) for PM control shall be in operation at all times that the No. 7 blast furnace is casting #3 and #4 tapholes.

(d) The No. 7 blast furnace casthouse east baghouse (167) for PM control shall be in operation at all times that the No. 7 blast furnace casthouse is casting #1 and #2 tapholes.

(e) Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, the baghouses for the coke handling equipment (Stack IDs 268 and 269) shall be operated at all times when its associated process is in operation.

(f) 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, replaced, blanked or isolated. 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.2.17 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 7 blast furnace casthouse west baghouse (166) and No. 7 blast furnace casthouse east baghouse (167) stack exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.18 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace casthouse west baghouse (166), at least once per day when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.5-8.0 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 reading that is outside the 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 across the baghouse used in conjunction with the No. 7 blast furnace casthouse east baghouse (167), at least once per day when the

above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5-2.5 kPa 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 reading that is outside the 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.

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.2.19 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse controlling emissions from a process operated continuously a failed unit and the associated process shall be shut down immediately until the failed unit has 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.2.20 Blast Furnace Gas Flare Monitoring [326 IAC 9-1-2][326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall install and maintain a monitor to detect the presence of a flame at the flare tips (3 flares) at the No. 7 Blast Furnace flare (195). The presence of a flame at the flare tip shall be monitored at all times when the vapors are being vented to the flare. The monitor shall be equipped with an automatic alarm, which activates when the presence of a flame is not detected during periods when vapors are being vented to the flare. Whenever the alarm is activated, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A reading that is outside the 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.

D.2.21 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.2.12, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.2.22 Record Keeping Requirements

(a) To document compliance with Conditions D.2.12 and D.2.21, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No. 7 Blast Furnace.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) To document compliance with D.2.7, the Permittee shall keep records of molten metal produced at the No.7 Blast Furnace in terms of tons of metal per three hundred and sixty five (365) days. These records shall be kept for at least a period of 60 months.

(c) To document compliance with D.2.8, the Permittee shall keep records of slag produced at the No.7 Blast Furnace and processed at the slag pits in terms of tons of slag per month. These records shall be kept for at least a period of 60 months.

(d) In order to document compliance with Condition D.2.17, the Permittee shall maintain

records of once per day visible emission notations of the No. 7 blast furnace casthouse west baghouse (166) and No. 7 blast furnace casthouse east baghouse (167) stack exhaust(s).

(e) In order to document compliance with condition D.2.18, the Permittee shall maintain once per day records of pressure drop across the baghouse during normal operation when venting to the atmosphere.

(f) In order to document compliance with condition D.2.20, the Permittee shall maintain records of the occurrence of alarm events at the flare and response steps taken to correct the same.

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

D.2.23 Reporting Requirements

(a) A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D.2.12 and D.2.21. The quarterly report 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. 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 semi-annual summary of the information to document compliance with Condition D.2.8 shall be submitted to the addresses 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 six (6) month period 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).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(c) One (1) Sinter Plant, constructed in 1959, with a an estimated maximum raw material usage of 1.4 million tons per year comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling and blend site.

(2) One (1) sinter plant windbox, controlled by the main baghouse with emissions exhausting through stack 7.

(3) One (1) sinter plant discharge end, controlled by the discharge end baghouse, and one (1) cooler station, partially controlled by the discharge end baghouse, with emissions exhausting through stack 8, installed in 1959.

(4) One (1) sinter plant upper screening station, with conveyors, screen hoods, and duct routed to and controlled by the upper screening station baghouse with emissions exhausting through stack 11. This equipment was constructed in 1998.

(5) Sinter loading, unloading, and transfer operations.

(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 Lake County PM Emission Requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), Total Suspended Particulate (TSP) emissions at the Sinter Plant shall not exceed the following:

(a) TSP emissions from the Windbox baghouse (7) shall not exceed 0.007 grains per dry standard cubic foot and 17.00 pounds per hour.

(b) TSP emissions from the Discharge end and cooler baghouse (8) shall not exceed 0.01 grains per dry standard cubic foot and 11.70 pounds per hour.

The emission limitations apply to one (1) stack serving the multiple units specified when the facility descriptions notes “stack serving”, and to each stack of multiple stacks serving multiple facilities when the facility description notes “each stack serving”.

D.3.2 Particulate Matter (PM) [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)), the PM10 emissions from the upper screening station baghouse (11) shall not exceed 0.022 grains per dry standard cubic foot of exhaust air.

D.3.3 Lake County Sulfur Dioxide (SO_2) Emission Limitations [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a)(13), the SO_2 emissions from the sinter plant windbox (7) shall not exceed 180.000 pounds per hour.

D.3.4 Sinter Plant Volatile Organic Compounds (VOCs) [326 IAC 8-13-3]

Pursuant to 326 IAC 8-13-3(b) and (c), the sinter plant windbox exhaust gas VOC emissions shall not exceed the VOC emission limits calculated as follows:

(a) During the period May 1 through September 30, the total VOC emissions (the seasonal cap) shall not exceed the VOC emission limit of 150,973 pounds of VOC.

(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 1162 pounds of VOC emissions.

(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 the VOC emission limit of 987 lbs VOC/day.

(d) 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.

(e) 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) Measure sinter at the P2 scale.

(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) Maintain the removal efficiency that is currently estimated at 90% at this value. Mittal Steel USA Inc. - Indiana Harbor East will continue operations to prevent “blinding” of the sinter plant windbox baghouse bags. The continuous emissions monitoring system will provide feedback on VOC emissions, if oil and grease content needs to be controlled. This procedure reflects current operation only and is subject to change while still meeting the emission limits in 326 IAC 8-13-3.

(5) 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.

(6) 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.3.5 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 this facility and any control devices.

Compliance Determination Requirements

D.3.6 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or the date of the last valid compliance test or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform TSP and SO2 testing on the sinter plant windbox exhaust (S2A) using methods as approved by the

Commissioner, in order to demonstrate compliance with conditions D.3.1 and D.3.3. Testing shall be performed using a test method that is listed in 326 IAC 6.8-4-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. These tests shall be repeated at least once every two and a one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance

D.3.7 Particulate Control [326 IAC 2-7-6(6)]

(a) The main and discharge end baghouses for particulate control shall be in operation at all times when the windbox, crusher, and cooler are in operation. During startup situations the windbox exhaust will not be initially directed to the main stack baghouse to prevent condensation damage to the baghouse. The exhaust will be redirected to the baghouse before the exhaust temperature exceeds 160 degrees F.

(b) Pursuant to Ispat's No. 3 Sinter Plant Fugitive Control Project which received an Exempt Construction and Operation Status Letter, CP 089-9176-00316 issued on March 30, 1998, the upper screening station baghouse operates when required by product fugitives.

(c) 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, replaced, blanked or isolated. 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.3.8 Continuous Emissions Monitoring [326 IAC 8-13-8]

(a) Pursuant to 326 IAC 8-13-8(a)(1) and (2), the Permittee shall demonstrate compliance with the emission limits in D.3.4 by continuously monitoring VOC emissions and

(b) comply with the CEM maintenance, operating procedures , quality assurance procedures, and performance specifications in 326 IAC 3-5.

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

D.3.9 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the Sinter Plant windbox main baghouse stack discharge end baghouse stack 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.3.10 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the windbox main baghouse (7) used

in conjunction with the sinter plant operations, at least once per day when the windbox is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main baghouse is outside the normal range of 2.0 and 15.0 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 reading that is outside the 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 across discharge end baghouse (8) used in conjunction with the sinter plant operations, at least once per day when the crusher~~,~~ and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the discharge end baghouse is outside the normal range of 2.0 and 8.0 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 reading that is outside the 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.

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.3.11 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse-controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit-has 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.3.12 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.3.3, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.3.13 Record Keeping Requirements

(a) To document compliance with Conditions D.3.3 and D.3.12, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the Sinter Windbox.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) To document compliance with Condition D.3.9, the Permittee shall maintain records of once per day visible emission notations of the windbox main baghouse (7), and discharge end baghouse (8) stack exhausts.

(c) To document compliance with Condition D.3.10, the Permittee shall maintain once per day records of pressure drop across the baghouse during normal operation when venting to the atmosphere.

(d) All records shall be maintained in accordance with Section C - General Record Keeping

Requirements, of this permit.

D.3.14 Continuous Emission Monitoring - Record Keeping and Reporting [326 IAC 8-13]

(a) The Permittee shall comply with the record keeping and reporting requirements in 326 IAC 3-5 for continuous emissions monitoring system for VOC on sinter windbox (7). In addition, the Permittee shall comply with the following record keeping and reporting requirements:

(1) For the period May 1 through September 30, maintain the following records:

(A) The VOC emitted each day.

(B) The cumulative total of VOC emitted.

(C) The sinter produced each operating day.

(2) Within thirty (30) days of the exceedance of an applicable emission limit in 326 IAC 8-13-3, submit a report containing the following:

(A) The name and location of the source.

(B) The nature of the exceedance.

(C) The date of the occurrence.

(D) The cause of the exceedance, such as, but not limited to, production rates or characteristics of the sinter burden.

(E) 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.

D.3.15 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MMBtu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D.3.3 and D.3.13 (a). The quarterly report 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. 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.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(d) One (1) pulverized coal injection (PCI) system with a maximum capacity of 132 tons per hour for Nos. 5, 6 and 7 blast furnaces, constructed in 1991, comprised of the following facilities, process equipment, and operational practices:

(1) Raw coal handling, including rail car unloading facilities and 50,000 ton capacity storage pile (stack 192).

(2) System A- RC-1 and RC-2 conveyors with a maximum throughput of 400 tons per hour, used to move coal to raw coal storage bins, with a baghouse to control emissions at transfer points and exhausting through stack 185.

(3) System C- RC-2, RC-3 and RC-4 conveyors and two (2) Raw Coal Storage Bins with a storage capacity of 750 tons each, with a baghouse to control emissions at transfer points and exhausting through stack 186.

(4) System D and E-Two (2) 66 ton per hour Pulverizers, with a recovery cyclone and baghouse D and E in series on each unit exhausting through stack 187.

(5) System F and G- Two (2) 66 ton per hour Conveyors to two (2) Pulverized Coal Storage Bins with a total storage capacity of 30,000 cubic feet, each controlled by a baghouse F and G, exhausting through stack 189 and 190, respectively.

(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 PM10 Emission Requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2 (formerly 326 IAC 6-1-10.1(d)(19)), PM10 emissions from the PCI system shall not exceed the following:

(a) System A-conveyor transfer with baghouse control (185) shall not exceed 0.003 grains per dry standard cubic foot, 0.17 pounds per hour

(b) System C-conveyors and raw coal bins with baghouse control (186) shall not exceed 0.003 grains per dry standard cubic foot, 0.23 pounds per hour

(c) System D-coal pulverizer with cyclone and baghouse control (187) shall not exceed 0.0015 grains per dry standard cubic foot, 0.93 pounds per hour

(d) System E-coal pulverizer with cyclone and baghouse control (188) shall not exceed 0.0015 grains per dry standard cubic foot, 0.93 pounds per hour

(e) System F-No. 7 blast furnace coal storage bin No. 1 with baghouse control (189) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour

(f) System G-No. 7 blast furnace coal storage bin No. 2 with baghouse control (190) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour

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

D.4.2 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2), the Coal unloading system exhausting to stack

(192) shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

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 this facility and any control devices.

Compliance Determination Requirements

D.4.4 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with D.4.1, the baghouses for PM_{10} control shall be in operation and control the PCI Systems A-G except B (which was never built) are in operation.

(b) Pursuant to CP 089-2016-00316 issued on August 22, 1991, the equipment listed in the start of this section shall be operated and maintained in accordance with the manufacturer's specifications.

(c) 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, replaced, blanked or isolated. 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.4.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the Coal pulverizer D baghouse (187) and Coal pulverizer E baghouse (188) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.4.6 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouses used in conjunction with the Coal pulverizer D (187) and Coal pulverizer E (188) at least once per day when the coal pulverizers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.25 **-**1.5 kPa 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 reading that is outside the 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.

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.4.7 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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 Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.8 Record Keeping Requirements

(a) In order to document compliance with Condition D.4.5, the Permittee shall maintain records of once per day visible emission notations of the Coal pulverizer D baghouse (187) and Coal pulverizer E baghouse (188) exhausts.

(b) In order to document compliance with Condition D.4.6, the Permittee shall maintain the records once per day of the pressure drop across the baghouse during normal operation.

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

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(e) The No. 2 Basic Oxygen Furnace (BOF) Shop, comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling, ladle additive truck hopper loading system having an estimated maximum throughput of 328,000 tons per year of alloy and flux. Emissions from the truck hopper controlled by a baghouse, which has a flow rate of 75,000-acfm exhausting through stack 150. Emissions from the alloy and flux storage and handling system are controlled by a baghouse, which has a flow rate of 50,000-acfm, exhausting through stack 151. Both baghouses were constructed in 1974.

(2) One (1) Hot metal station containing reladling, desulfurization, and slag skimming operations having an estimated maximum capacity of 4,029,600 tons of hot metal per year. Captured emissions from the hot metal station and charging aisle are controlled by a baghouse having a flow rate of 360,000-acfm, exhausting through stack 152. Original construction was 1974 and an upgrade was completed in August 1994 as part of a consent decree.

(3) Two (2) BOFs, identified as No. 10 and No. 20, and operations including charging, oxygen blowing, tapping, and alloy addition with a total estimated maximum capacity of 4,543,600 tons of hot metal and scrap per year. Captured emissions controlled by two (2) off-gas scrubber systems with flares having a flow rate of 1,500,000-acfm each, exhausting through flare stacks 147 and 148. Construction commenced on this equipment in 1970. Uncaptured emissions exhausting through roof monitor 153 and charging and miscellaneous furnace emissions exhausting through a secondary ventilation scrubber having a flow rate of 194,000-acfm, exhausting through stack 149. The Off-gas scrubber systems were constructed in 1974 and the Secondary Vent scrubber was replaced in 2003.

(4) One (1) ladle metallurgy facility station consisting of alloy addition, electric arc reheat, slag skimming, and raw material handling specifically for the metallurgy station with an estimated maximum throughput of 4,029,600 tons per year of steel. Captured emissions are controlled by a baghouse having a flow rate of 135,000-acfm, exhausting through stack 154. This equipment was constructed in 1985.

(5) One (1) Continuous casting operations consisting of slab casters, and three (3) torch cutoff machines. Leaded emissions from the casters exhaust through the caster fume baghouse, which has a flow rate of 171,000 acfm, exhausting through stack 159. Steam from the water spray cooling exhausts through three (3) vents along the caster, identified as stacks 160, 161, and 162. Fugitive emissions from the casting operations exhaust through a roof monitor, identified as 158. This equipment was constructed in 1985. (Bloom caster at this site is permanently shutdown)

(6) A tundish dump and repair station with leaded emissions controlled by a baghouse, which has a flow rate of 50,000 acfm, exhausting through stack 156. This equipment was constructed in 1989.

(7) Miscellaneous natural gas combustion used for ladle preheating, exhausting through stack 157, and tundish and ladle shroud preheating and drying, exhausting through No.2 BOF Shop Roof Monitors 155.

(8) Slag skimming into slag pots.

(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 Lake County PM Emission Requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), Total Suspended Particulates (TSP) emissions from the BOF Shop operations shall not exceed the following:

(a) TSP emissions from the No. 2 BOF truck and ladle hopper baghouse (150) shall not exceed 0.0052 grains per dry standard cubic foot and 0.800 pounds per hour.

(b) TSP emissions from the No. 2 BOF alloy and flux storage baghouse (151) shall not exceed 0.0052 grains per dry standard cubic foot and 0.530 pounds per hour.

(c) TSP emissions from the No. 2 BOF charging aisle reladling and desulfurization baghouse (152) shall not exceed 0.011 grains per dry standard cubic foot and 28.30 pounds per hour.

(d) TSP emissions from the No. 2 BOF No. 10 off-gas scrubber stack (147) shall not exceed 0.058 pounds per ton and 16.00 pounds per hour.

(e) TSP emissions from the No. 2 BOF No. 20 off-gas scrubber stack (148) shall not exceed 0.058 pounds per ton and 16.00 pounds per hour.

(f) TSP emissions from the No. 2 BOF secondary ventilation system scrubber (149) shall not exceed 0.015 grains per dry standard cubic foot and 12.00 pounds per hour.

(g) TSP emissions from the No. 2 BOF ladle metallurgical station baghouse (154) shall not exceed 0.0052 grains per dry standard cubic foot and 2.00 pounds per hour.

(h) TSP emissions from the No. 2 BOF caster fume collection baghouse (159) shall not exceed 0.0052 grains per dry standard cubic foot and 2.00 pounds per hour.

(i) TSP emissions from the No. 2 BOF tundish dump baghouse (156) shall not exceed 0.0052 grains per dry standard cubic foot and 2.200 pounds per hour.

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

D.5.2 Opacity [326 IAC 6.8-3]

Pursuant to 326 IAC 6.8-3 (formerly 326 IAC 6-1-10.1(e)), the following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict. The opacity limits for the BOF operations shall be limited as follows:

(a) The opacity for the No. 2 BOF truck and ladle hopper baghouse (150) shall not exceed five percent (5%), three (3) minute average.

(b) The opacity for the No. 2 BOF alloy and flux storage baghouse (151) shall not exceed five percent (5%), three (3) minute average.

(c) The opacity for the No. 2 BOF charging aisle reladling and desulfurization baghouse (152) shall not exceed five percent (5%), three (3) minute average.

(d) The opacity for the No. 2 BOF No. 10 off-gas scrubber stack (147) shall not exceed twenty percent (20%), six (6) minute average.

(e) The opacity for the No. 2 BOF No. 20 off-gas scrubber stack (148) shall not exceed twenty percent (20%), six (6) minute average.

(f) The opacity for the No. 2 BOF roof monitor (153) shall not exceed twenty percent (20%), three (3) minute average.

(g) The opacity for the No. 2 BOF secondary ventilation system scrubber (149) shall not exceed twenty percent (20%), six (6) minute average.

(h) The opacity for the No. 2 BOF ladle metallurgical station baghouse (154) shall not exceed five percent (5%), three (3) minute average.

(i) The opacity for the No. 2 BOF caster fume collection baghouse (159) shall not exceed five percent (5%), three (3) minute average.

(j) The opacity for the No. 2 BOF tundish dump baghouse (156) shall not exceed five percent (5%), three (3) minute average.

D.5.3 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the No.2 BOF Furnace Roof Monitor (153), Continuous casting operations (160, 161, 162), No. 2 BOF Continuous Caster Roof Monitor (158), ladle reheating (157) and No. 2 BOF Shop Roof Monitor (155) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.5.4 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 2 BOF secondary vent (149) shall not exceed 0.014 lbs/ton and 6.440 lbs/hour.

(b) SO_2 emissions from the stack serving No. 2 BOF charge aisle and HMS baghouse (152) shall not exceed 0.151 lbs/ton and 69.460 lbs/hour.

(c) SO_2 emissions from the stack serving No. 2 BOF ladle metal baghouse (154) shall not exceed 0.0.25 lbs/ton and 11.500 lbs/hour.

D.5.5 Carbon Monoxide [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), the No. 2 BOF off-gas waste gas stream shall be 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

D.5.6 Operation restriction – shutdown of 2 A Blooming Mill and 21 inch Bar Mill [326 IAC 2-3] [326 IAC 2-2]

(a) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, 326 IAC 2-3 and 326 IAC 2-2, the 2A Blooming Mill and 21 inch Bar Mill shall be shutdown permanently before the restart of the No.7 Blast Furnace operation after the completion of the reline project in 2003. In addition within 180 days of restart of the No.7 Blast Furnace operation after the reline project in 2003, these emissions units shall be physically disconnected and permanently removed from service.

(b) On and after the date of issuance of this permit, the Permittee shall request the IDEM, OAQ to remove the 2A Blooming Mill and 21 inch Bar Mill and all the associated equipment permanently from the emissions inventory maintained by the State.

(c) This condition supercedes all conditions in previous permits that allow the operation of the 2A Blooming Mill and 21 inch Bar Mill and its associated equipment.

D.5.7 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 this facility and any control devices.

Compliance Determination Requirements

D.5.8 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.1 and 5.2, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

D.5.9 Particulate Control [326 IAC 2-7-6(6)]

(a) The No. 2 BOF truck and ladle hopper baghouse (150) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(b) The No. 2 BOF alloy and flux storage baghouse (151) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(c) The No. 2 BOF charging aisle reladling and desulfurization baghouse (152) for PM control shall be in operation at all times that the Hot metal station is in operation.

(d) The No. 2 BOF secondary ventilation system scrubber (149) for PM control shall be in operation at all times that either of the furnaces are in operation.

(e) The No. 2 BOF ladle metallurgical station baghouse (154) for PM control shall be in operation at all times that the ladle metallurgy facility station is in operation.

(f) The No. 2 BOF caster fume collection baghouse (159) for PM control shall be in operation all times that the continuous caster is in operation producing leaded steel/blooms.

(g) The No. 2 BOF tundish dump baghouse (156) for PM control shall be in operation at all times that the tundish dump and repair station are handling leaded steel/bloom tundishes. (This baghouse is only used for dumping leaded steel/bloom tundishes.)

(h) 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, replaced, blanked or isolated. 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.5.10 Particulate Matter (PM) and Carbon Monoxide (CO)

No. 2 BOF shop No. 10 BOF off-gas scrubber (147) and No. 20 BOF off-gas scrubber (148) system and the flare equipped with flare igniter for carbon monoxide control shall be in operation at all times that respective furnaces are in operation.

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

D.5.11 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 2 BOF shop charging aisle reladling and desulfurization (Hot Metal Station) baghouse (152), No. 2 BOF shop No. 10 BOF and No. 20 BOF off-gas scrubber stacks (147) and (148), and No. 2 BOF shop secondary ventilation system scrubber (149) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.5.12 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 10 BOF (147), at least once per day when the 10 BOF is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 20 BOF (148), at least once per day when the 20 BOF is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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.

(c) The Permittee shall record the pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop secondary ventilation system (149), at least once per day. When for any one reading, the pressure drop across the scrubber is outside the normal range of 25 and 45 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 1250 gallons per minute, or a minimum rate 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 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.

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.5.13 Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, 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.5.14 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 2 BOF shop charging aisle reladling and desulfurization (Hot Metal Station) (152) at least once per day when the Hot metal station in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0-10.0 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 reading that is outside the 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.

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.5.15 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse controlling emissions from a process operated continuously a failed unit and the associated process shall be shut down immediately until the failed unit has 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.5.16 No.2 BOF Flare Monitoring [326 IAC 9-1-2][326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall install and maintain a monitor to detect the presence of a flame at the flare at the No. 2 BOF shop, 10 BOF (147), and 20 BOF (148). The presence of a flame at the flare tip shall be monitored at all times when the vapors are being vented to the flare. The monitor shall be equipped with an automatic alarm, which activates when the presence of a flame is not detected during periods when vapors are being vented to the flare. Whenever the alarm is activated, 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 with Section C - Response to Excursions or Exceedances shall be considered a violation of this permit.

D.5.17 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.5.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.5.18 Record Keeping Requirements

(a) In order to document compliance with Condition D.5.11, the Permittee shall maintain records of once per day visible emission notations of the No. 2 BOF charging aisle reladling and desulfurization baghouse (152), No. 2 BOF No. 10 off-gas scrubber stack (147), No. 2 BOF No. 20 off-gas scrubber stack (148), and No. 2 BOF secondary ventilation system scrubber (149) stack exhaust(s).

(b) In order to document compliance with condition D.5.12 (a) and D.5.12 (b), the Permittee shall maintain records of the pressure drop across the scrubbers and flowrate once per day during the blow portion of the steel production cycle and with condition D.5.12(c), the Permittee shall maintain records of the pressure drop across the scrubbers and flowrate once per day during normal operation.

(c) In order to document compliance with condition D.5.14, the Permittee shall maintain once per day records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

(d) To document compliance with Conditions D.5.4 and D.5.17, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the No. 2 BOF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

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

D.5.19 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of the limits in Condition D.5.4, in order to document compliance with Conditions D. 5.4 and D.5.18 (d). The quarterly report 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. 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.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(f) No.4 Basic Oxygen Furnace (BOF) comprised of the following facilities, process equipment, and operational practices:

(1) Flux, alloy and waste oxide briquettes (WOB) unloading, hopper house and storage/handling facility.

(2) Scrap metal unloading/storage (scrap yard) and scrap metal charging box.

(3) Two (2) Hot metal transfer and desulfurization operations having an estimated maximum capacity of 4,222,320 tons of hot metal per year with captured emissions controlled by two (2) baghouses having flow rates of 190,000 and 220,000 acfm, exhausting through stacks 26 and 27. This equipment was constructed in 1977.

(4) Two (2) BOFs, identified as No. 50 and No. 60 and operations including charging, blowing, tapping, flux and alloy additions, and slag skimming with a total estimated maximum capacity of 5,676,366 tons of hot metal and scrap per year with uncaptured emissions exhausting through a roof monitor (stack 29), and captured emissions controlled by a four (4) off-gas scrubber system, exhausting through stack 38. This equipment was constructed in 1966. Charging, tapping, and miscellaneous furnace emissions are controlled by a secondary ventilation baghouse having a flow rate of 600,000 acfm, exhausting through stack 37. This equipment was constructed in 1977 and modified in 1996.

(5) Raw material handling system for the RHOB facility, including hopper house, alloy and flux storage bins having an estimated maximum throughput of 4,700,000 tons per year and dust emissions controlled by a baghouse having a flow rate of 48,100 acfm and exhausting through stack 33.

(6) One (1) RHOB vacuum degasser with natural gas-fired flare for exhaust gas control with an estimated maximum throughput of 4,686,600 tons/year of steel, exhausting through stack 32. This equipment was constructed in 1987.

(7) Ladle and tundish preheaters (stack 36).

(8) Two (2) argon stirring stations and one (1) continuous caster with tundish, caster mold, and casting machine with cutoff, with steam vents exhausting through stacks 24 and 25.

(9) Torch cutoff exhausting into the building (stack 31).

(10) Maintenance and miscellaneous operations associated with the BOF.

(11) Furnace Additives Transfer House Baghouses, exhausting inside the buildings (stacks 28 and 35).

(12) Slag dumping.

(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 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 source, No. 4 Basic Oxygen Furnace (BOF), except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF.

D.6.2 National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Furnace (BOF) [40 CFR 63, Subpart

FFFFF]

(a) The provisions of affected source is subject to the 40 CFR 63, Subpart FFFFF National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing (40 CFR 63, Subpart FFFFF) as of May 20, 2003. apply to the affected sources. 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 63.7783(a), the Permittee must comply with these requirements on and after May 22, 2006.

(b) The following emission units comprise the affected source which is subject to 40 CFR 63, Subpart FFFFF:

No. 4 Basic Oxygen Furnace (BOF)

(c) The definitions of 40 CFR 63. Subpart FFFFF at 40 CFR 63.7852 are applicable to the affected source.

(d) 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.

D.6.3 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)) Total Suspended Particulate (TSP) emissions from the No. 4 BOF operations shall not exceed the following:

(a) TSP emissions from the No. 4 BOF hot metal transfer and desulfurization baghouses stack (26 and 27) shall not exceed 0.0052 grains per dry standard cubic foot and 8.26 pounds per hour

(b) TSP emissions from the No. 4 BOF shop off-gas scrubber stack (38) shall not exceed 0.187 pounds per ton and 100.00 pounds per hour.

(c) TSP emissions from the No. 4 BOF shop secondary ventilation system baghouse (37) shall not exceed 0.006 grains per dry standard cubic foot and 22.30 pounds per hour.

(d) TSP emissions from the No. 4 BOF shop vacuum degassing baghouse (33) shall not exceed 0.01 grains per dry standard cubic foot and 4.280 pounds per hour.

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

D.6.4 Opacity [326 IAC 6.8-3]

Pursuant to 326 IAC 6.8-3 (formerly 326 IAC 6-1-10.1(e)), the following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict. The visible emissions from the BOF operations shall be limited as follows:

(a) Opacity from the No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) shall not exceed five percent (5%), three (3) minute average.

(b) Opacity from the No. 4 BOF shop roof monitor (29) shall not exceed twenty percent (20%), three (3) minute average.

(c) Opacity from the No. 4 BOF shop off-gas scrubber (38) shall not exceed twenty percent (20%), six (6) minute average.

(d) Opacity from the No. 4 BOF shop secondary ventilation system baghouse (37) shall not

exceed five percent (5%), three (3) minute average.

(e) Opacity from the No. 4 BOF shop vacuum degassing material handling baghouse (33) shall not exceed five percent (5%), three (3) minute average.

D.6.5 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the No.4 BOF Furnace Roof Monitor (29), RHOB vacuum degassers (32), ladle reheating (36), continuous caster (24 and 25) and Furnace Additive Hopper baghouse (35) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.6.6 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 4 BOF HMS baghouse S and N (26 and 27) shall not exceed 0.151 lbs/ton and 36.391 lbs/hour.

(b) SO_2 emissions from the stack serving No. 2 BOF secondary vent stack (37) shall not exceed 0.001 lbs/ton and 0.535 lbs/hour.

D.6.7 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 this facility and any control devices.

Compliance Determination Requirements

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

Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No. 4 BOF (stack 38) utilizing a testing method approved by the Commissioner to show compliance with conditions D.6.3 and D.6.4, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-4-1 (formerly 326 IAC 6-1-10.1(f)(2)) and as approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.6.9 Particulate Control [326 IAC 2-7-6(6)]

(a) The hot metal transfer and desulfurization operation baghouses (26 and 27) for PM control shall be in operation at all times that any of the respective processes are in operation.

(b) The BOF and process off-gas scrubber system (38) and secondary ventilation baghouse (37) shall be in operation at all times that either of the furnaces are in operation.

(c) Raw material handling for RHOB facility baghouse (33) shall be in operation at all times that any of the processes are in operation.

(d) 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, replaced, blanked or isolated. 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.6.10 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37), No. 4 BOF shop reladling and desulfurization (Hot Metal Station) baghouse north (26) and No. 4 BOF reladling and desulfurization (Hot Metal Station) baghouse south (27) 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.11 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop and flow rate of the scrubber used in conjunction with the No. 4 BOF shop off-gas scrubber (38), at least once per day when the 4 BOF shop is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 25 and 40 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 600 gallons per minute, or a minimum rate 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 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.

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.6.12 Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, 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.6.13 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 4 BOF hot metal transfer and desulfurization baghouse north (26) at least once per day when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10.0 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 reading that is outside the 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 across the baghouse used in conjunction with the No. 4 BOF hot metal transfer and desulfurization baghouse south (27) at least once per day when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.0-12.0 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.

(c) The Permittee shall record the pressure drop across the baghouse used in conjunction with No. 4 BOF shop secondary ventilation system baghouse (37) at least once per day when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10.0 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 reading that is outside the 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.

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.6.14 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse-controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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.6.15 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.6.6, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.6.16 Record Keeping Requirements

(a) In order to document compliance with Condition D.6.10, the Permittee shall maintain records of once per day visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37) and No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) stack exhausts.

(b) To document compliance with Condition D.6.11, the Permittee shall maintain the records, once per day of the pressure drop across the scrubber and flow rate during normal operation.

(c) In order to document compliance with condition D.6.13, the Permittee shall maintain the records once per day of the pressure drop across the baghouses during normal operation.

(d) To document compliance with Conditions D.5.4 and D.5.17, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the No. 4 BOF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

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

D.6.17 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 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 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 for affected source shall be submitted no later than 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.6.18 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of the limits in Condition D.6.6, in order to document compliance with Conditions D. 6.6 and D.6.16 (d). The quarterly report 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. 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.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(g) No. 1 Lime Plant was constructed in 1973 with an estimated maximum capacity of 569,400 tons per year of lime comprised of the following facilities, process equipment, and operational practices:

(1) Limestone unloading, storage and screening area.

(2) Two (2) Limestone preheaters, two (2) rotary kilns with an estimated maximum heat input rate of 207 MMBtu/hr fueled by natural gas or residual fuel oil, with exhaust from kilns routed back to preheaters and then to a set of multicyclones. The emissions from the multicyclones are controlled by two (2) baghouses exhausting through stacks 45 and 49.

(3) Dust fines are sent to a dust bin, with emissions controlled by a baghouse and exhausting through stack 46.

(4) Ten (10) storage silos receive an estimated maximum of 569,400 tons per year of finished lime, with fines controlled by lime handling baghouses and exhausting through stack 47.

(5) Fugitive control project including loadout spout on rejection bin controlled by existing kiln baghouse, preheater area enclosure around two (2) kiln feed hood/ ram loadout dribbles, preheater area loading spouts for truck loading with displaced air controlled by existing kiln baghouse and ten (10) loading spouts with emissions controlled by baghouse and truck loadout area with exhaust controlled by loadout baghouse and exhausting through stack 48. This equipment was upgraded in 1997.

(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 NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart 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 except when otherwise specified in Table 8 to 40 CFR 63 Subpart AAAAA.

D.7.2 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [40 CFR 63, Subpart AAAAA]

(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing Plants, (40 CFR 63, Subpart AAAAA), as of January 5, 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 63.7083(b), the Permittee must comply with these requirements on and after January 5, 2007.

(b) The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart AAAAA:

The No.1 and No. 2 Kiln baghouses (45), (49), and their associated cooler(s), and processed stone handling (PSH) operation system(s)

(c) The definitions of 40 CFR 63. Subpart AAAAA at 40 CFR 63.7143 is applicable to the affected source

(d) 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.

D.7.3 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), PM10 emissions from the No. 1

Lime Plant operations shall not exceed the following:

(a) Combined PM_{10} emissions from the No.1 and No. 2 Kiln baghouses stacks (45) and (49) shall not exceed 0.110 pounds per ton and 7.149 pounds per hour

(b) PM10 emissions from the Storage Silo baghouse (47) shall not exceed 0.085 pounds per ton and 5.530 pounds per hour

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

D.7.4 Sulfur Dioxide [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the allowable sulfur dioxide (SO_2) emission rate from the No. 1 and No. 2 Kiln baghouses (45 & 49) shall not exceed 0.46 lb/MMBtu and 32.08 lbs/hour.

D.7.5 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 this facility and any control devices.

Compliance Determination Requirements

D.7.6 Particulate Control [326 IAC 2-7-6(6)]

(a) The No.1 and No. 2 Kiln baghouses (45), (49), Storage Silo baghouse (47), micro-pulse baghouse (46) and Truck loadout baghouse (48) for PM control shall be in operation and control emissions from the No. 1 Lime Plant operations at all times that the No. 1 Lime Plant is in operation and associated equipment is also 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, replaced, blanked or isolated. 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.7.7 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No.1 and No. 2 Kiln baghouses stacks (45) and (49) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.7.8 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the No.1 and No. 2 Kiln baghouses (45) and (49) and Storage Silo baghouse (47) at least once per day when the No.1 and No. 2 Kiln and Storage Silo are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 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-Response to Excursions or Exceedances. A reading that is outside the 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.

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.7.9 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse controlling emissions from a process operated continuously, a failed units and the associated process shall be shut down immediately until the failed unit has 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.7.10 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.7.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.7.11 Record Keeping Requirements

(a) In order to document compliance with Condition D.7.7, the Permittee shall maintain records of once per day visible emission notations of the No.1 and No. 2 Kiln baghouses stacks (45) and (49).

(b) To document compliance with Condition D.7.8, the Permittee shall maintain the records of the pressure drop across the baghouses once per day during normal operation.

(c) To document compliance with Conditions D.7.4 and D.7.10, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No.1 and No. 2 Kilns.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

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

D.7.12 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.

(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 AAAAA, 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 twenty-seven months after the effective date of January 5, 2007.

(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.7.13 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MMBtu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of the limits in Condition D.7.4 in order to document compliance with Conditions D.7.4 and D.7.11(c). The quarterly report 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. 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.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(h) No. 1 Electric Arc Furnace comprised of the following facilities, process equipment, and operational practices:

(1) Bulk alloy handling: Raw material unloading, piling, and transporting of scrap metal, fluxes, and alloys.

(2) Raw material charging to the electric arc furnace.

(3) One (1) electric arc furnace with excentric bottom tapping (EBT), having an estimated maximum annual capacity of 975,000 tons with emissions controlled by a baghouse having a flow rate of 500,000 acfm exhausting through baghouse roof monitor (141) commencing operation in 1970 and upgraded in 1996.

(4) One (1) ladle metallurgical station constructed in 1989 with a maximum annual capacity of 975,900 tons with emissions controlled by a baghouse having a flow rate of 40,000 acfm exhausting through stack 143.

(5) Five (5) natural gas ladle preheaters constructed in 1990, each has one (1) or two (2) burners with a 15 MMBtu per hour combined maximum heat input and emissions uncontrolled exhausting through stack 140.

(6) One (1) continuous casting and cooling operations exhausting through stacks 144 and 145, respectively.

(7) Slag handling operations.

(8) EAF Shop Roof Monitor (stack 142).

(i) Direct Reduced Iron (DRI) storage and conveying system constructed in 2001, comprised of the following facilities, process equipment, and operational practices:

(1) One (1) enclosed truck/trailer unloading area identified as 213 with a maximum throughput of 400,000 tons per year of DRI.

(2) A DRI conveyor system consisting of:

(A) One (1) 20,000 cu. ft. capacity enclosed DRI storage silo with excess air vented through the roof and then through one of the bin vents.
(B) One (1) horizontal trough belt stocking conveyor.
(C) Multiple Delivery Conveyors.

(3) Emission control system for (1) and (2) to remove particulate matter consisting of:

(A) Bin Vent Filter No. 1 (210)
(B) Bin Vent Filter No. 2 (211)
(C) Bin Vent Filter No. 3 (212)

(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 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), PM10 emissions from the electric arc furnace operations shall not exceed the following:

(a) PM10 emissions from the electric arc furnace shop ladle metallurgical station baghouse (143) shall not exceed 0.01 grains per dry standard cubic foot and 0.820 pounds per hour.

(b) PM10 emissions from the electric arc furnace shop direct shell evacuation system baghouse roof monitor (141) shall not exceed 0.0052 grains per dry standard cubic foot and 17.14 pounds per hour.

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

D.8.2 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the regenerative horizontal ladle preheaters (140), continuous casting and cooling operations (144 and 145), EAF Shop Roof Monitor (142) and DRI Bin Vent Filters (210-212) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.8.3 Opacity [326 IAC 6.8-3]

Pursuant to326 IAC 6.8-3 (formerly 326 IAC 6-1-10.1(e)), the following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict. The opacity from the electric arc furnace operations shall be limited as follows:

(a) Opacity from the electric arc furnace direct shell evacuation system baghouse (141) shall not exceed five percent (5%), six (6) minute average.

(b) Opacity from the electric arc furnace shop roof monitor (142) shall not exceed twenty percent (20%), six (6) minute average.

(c) Opacity from the electric arc furnace shop ladle metallurgical station baghouse (143) shall not exceed five percent (5%), six (6) minute average.

D.8.4 Sulfur Dioxide Emissions Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the sulfur dioxide (SO_2) emissions from the No. 1 electric arc furnace (EAF) and ladle metallurgy facility (LMF) shall be limited as follows:

(a) SO_2 emissions from the EAF shall be less than 336.7 tons per 12 consecutive months with compliance determined at the end of each month, based on the total tons of each series steel produced times the pounds of SO_2 per ton of steel (pounds of SO_2 divided by tons of steel).

(b) The EAF pounds of SO_2 divided by tons of steel for calculation purposes shall be: 0.083 pounds of SO_2 per ton of steel for non-sulfur bearing heats, 0.531 pounds of SO_2 per ton of steel for 1100 series steel, and 1.752 pounds of SO_2 per ton of steel for 1200 series steel, and

(c) The amount of molten steel to be processed in the LMF (SS-2) shall be less than 975,900 tons per 12 consecutive months with compliance determined at the end of each month and SO_2 shall not exceed 0.107 pounds per ton.

The above limits will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) level requirements.

D.8.5 Sulfur Dioxide - Combustion Fuel Usage [326 IAC 2-2][326 IAC 2-3]

Pursuant to CP 089-3630-00316 issued March 20, 1995, combustion sulfur dioxide emissions from the Electric Arc Furnace shall be limited by using natural gas-fired burners.

D.8.6 Sulfur Dioxide [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide (SO_2) emissions from the EAF shop ladle metal baghouse (143) shall not exceed 0.125 lbs/ton and 13.90 lbs/hour.

D.8.7 Ladle Preheater Limits [326 IAC 2-2][326 IAC 2-3]

Pursuant to Amendment 089-9155, issued January 7, 1998, the regenerative ladle preheaters shall not exceed the following:

(a) the five ladle preheaters shall be fired by natural gas and limited to firing 130.9 million cubic feet per year,

(b) combined nitrogen oxide emissions shall not exceed 37.50 pounds per hour, and 42.65 tons per year,

(c) carbon monoxide emissions shall not exceed 1.15 pounds per hour and 1.31 tons per year.

D.8.8 Carbon Monoxide Emissions [326 IAC 2-2]

Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the required amount of oxygen shall be supplied to the EAF to ensure that the carbon monoxide emissions shall not exceed 4.67 pounds per ton.

This limit will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration)

D.8.9 Emission Offsets [326 IAC 2-2][326 IAC 2-3]

(a) Pursuant to Construction Permit (45) 1856 issued October 17, 1990, that prior to the start of operation of the five natural gas ladle preheaters, the existing three cold combustion type horizontal ladle preheaters at the No. 1 Electric Furnace shop will be removed from operation.

(b) Pursuant to Construction Permit 089-9033-00316 issued on February 26, 1998, the No. 80 furnace at the No. 1 Electric Arc Furnace Shop and the No. 2AC boiler 207-10 shall be permanently shutdown as required in CP No. 089-3630, issued on March 20, 1995. Also, as required in CP No. 089-6919-00316 issued on December 30, 1996, the emissions from the No. 1 Electric Arc Furnace Shop shall be limited as follows in tons per year:

TSP	PM_{10}	SO_2	Lead	VOC	NO_x	CO
133.2	108.0	336.7	1.23	11.3	159.6	2303.5

(c) Pursuant to CP 089-3630-00316 issued March 20, 1995, the 70.6 tons per year of sulfur dioxide shall be offset by 77 tons per year credit from the permanent shutdown of the 2AC boiler No. 207-10.

The above limits and conditions will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) level requirements.

D.8.10 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 this facility and any control devices.

Compliance Determination Requirements

D.8.11 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or 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 SO2 and opacity testing on the electric arc furnace baghouse (stack 141) and the Ladle Metallurgical Facility (stack 143) utilizing a testing method approved by the Commissioner conditions D.8.6 and D.8.8, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

D.8.12 Particulate Control [326 IAC 2-7-6(6)]

(a) The electric arc furnace baghouse (141) for PM10 control shall be in operation at all times that the electric arc furnace is in operation.

(b) The ladle metallurgical station baghouse (143) for PM10 control shall be in operation at all times that the ladle metallurgical station is in operation.

(c) 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, replaced, blanked or isolated. 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.8.13 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the electric arc furnace baghouse (141) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.8.14 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the electric arc furnace (141) at least once per day when the electric arc furnace is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0-10.5 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 reading that is outside the 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 across the baghouse used in conjunction with the ladle metallurgical station processes (143) at least once per day when the ladle metallurgical station processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0-10.5 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 reading that is outside the 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.

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.8.15 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse-controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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.8.16 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.8.9, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.8.17 Record Keeping Requirements

(a) To document compliance with Conditions D.8.6 and D.8.16, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the EAF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) In order to document compliance with Condition D.8.13, the Permittee shall maintain records of once per day visible emission notations of the electric arc furnace operations baghouse stack exhaust(s).

(c) In order to document compliance with condition D.8.14, the Permittee shall maintain the once per day records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

(d) Pursuant to CP 089-3630, issued March 20, 1995, a log of the information necessary to document compliance with Conditions D.8.4 (a), (b), (c), D.8.5, and D.8.9(c), shall be maintained.

(e) A log of the information necessary to document compliance with Condition D.8.7 shall be maintained. The records shall include the cumulative amount of natural gas fired by the ladle preheaters for each month of operation.

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

D.8.18 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D. 8.6 and D.8.17 (a). The quarterly report 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. 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.9 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(j) 80" Hot Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) No. 4 Walking Beam Furnace, with an estimated maximum heat input rate of 720 MMBtu/hr, equipped with low NOx burners and using natural gas as fuel, exhausting through stack 101 and 102, installed in 2001.

(2) One (1) No. 5 Walking Beam Furnace, with an estimated maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 107, installed in 1995.

(3) One (1) No. 6 Walking Beam Furnace, with an estimated maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 108, installed in 1995.

(4) One (1) Hot Rolling Mill Operation, including roughing mill with cooling water spray, crop shear and finishing stands exhausting to roof monitor 109.

(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 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the No. 5 Walking Beam Furnace, No. 6 Walking Beam Furnace, No. 4 Walking Beam Furnace and Hot rolling mill operation shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.9.2 Walking Beam Furnace Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to CP 089-4400 issued on August 23, 1995, the Walking Beam Furnaces shall be limited as follows:

(a) NOx emissions shall not exceed 357 pounds per million cubic feet of natural gas.

(b) Carbon monoxide emissions shall not exceed 13 pounds per million cubic feet of natural gas

(c) the total heat input to the three walking furnaces shall not exceed an hourly rate of 1371.2 MMBtu/hr

D.9.3 Fuel Usage Limit [326 IAC 2-2]

Pursuant to CP 089-4400 issued on August 23, 1995, the amount of natural gas-fired shall be limited to twelve billion ($12X10^9$) cubic feet per 12 consecutive months with compliance determined at the end of each month.

D.9.4 Sulfur Dioxide [326 IAC 2-2]

Pursuant to CP 089-4400 issued on August 23, 1995, SO2 emissions from the 80" Hot Strip Mill, Walking Beam Furnaces shall be minimized by using natural gas only as fuel.

D.9.5 PSD and Emissions Offset Credit Limits [326 IAC 2-2 and 326 IAC 2-3]

(a) Pursuant to 326 IAC 2-2, 326 IAC 2-3 and CP 089-4400 issued on August 23, 1995, the permanent shutdown of the following facilities shall continue in effect:

(1) “C” Coke Battery underfire

(2) “C” Coke Battery preheater

(3) "C" Coke Battery process fugitives

(4) "C" Coke Battery NH4 destruct

(5) No. 3 Blast Furnace Stoves

(6) 80" Hot Strip Mill Pusher Furnaces

(7) No. 3 Bloom Mill reheat

(8) 14" Bar Mill reheat furnaces

(9) 24" Bar Mill reheat furnaces

(10) No. 3 Open Hearth

(11) 10" Bar Mill Reheat Furnace

(12) 44" Hot Strip Mill reheat

(b) The reactivated two (2) natural gas fired Pusher Furnaces in CP 089-3192**,** issued on October 26, 1994**,** and the previously restricted backup Furnaces in PC (45) 1717**,** issued on December 15, 1988**,** at the 80" Hot Strip Mill shall be permanently removed from service.

These conditions will satisfy the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emissions Offset).

D.9.6 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 this facility and any control devices.

Compliance Determination Requirements

D.9.7 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or 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 NOx testing on the No. 4 Walking Beam Furnace (stacks 101 and 102), No.5 Walking Beam Furnace (107) and No. 6 Walking Beam Furnace (108) utilizing a testing method approved by the Commissioner to show compliance with condition D.9.2(a), in accordance with Section C - Performance Testing. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

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

D.9.8 Record Keeping Requirements

(a) To document compliance with Condition D.9.3, the Permittee shall maintain records of natural gas use.

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

D.9.9 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.9.3 and D.9.8 (a) 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.

SECTION D.10 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(k) 12" Bar Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) Billet Inspection Line Shotblaster, installed in 1994 with emissions controlled by a baghouse having an estimated maximum flow rate of 5000 acfm vented inside the building.

(2) One (1) Billet Grinding installed in 1977 exhausting through stack 87.

(3) One (1) natural gas fired Billet Reheat Furnace, installed in 1977, having an estimated maximum heat input of 375 MMBtu/hr, exhausting through stack 89

(4) One (1) 23 Stand Rolling Mill exhausting to roof monitor 88.

(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 Particulate Matter [326 IAC 6.8-2-6]

Pursuant to 326 IAC 6.8-6-10 (formerly 326 IAC 6-1-10.1(h)(13)), the 12" Bar Mill billet reheat furnace (89) shall fire natural gas only and shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 1.090 lbs/hour

D.10.2 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the Billet Inspection Line Shotblaster (90), Billet Grinding (87) and the 23 Stand Rolling Mill (88) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.10.3 Sulfur Dioxide [326 IAC 7-4.1-1]

Pursuant to 326 IAC 7-4.1-1, SO2 emissions from the 12" Bar Mill Billet reheat furnace (89), shall be minimized by use of natural gas only.

D.10.4 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 this facility and any control devices.

Compliance Determination Requirements

D.10.5 Particulate Control [326 IAC 2-7-6(6)]

Pursuant to CP-089-2545, issued on February 4, 1994, the Billet Inspection Line Shotblaster baghouse shall be operated at all times that the shotblaster is operating.

SECTION D.11 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(l) No. 3 Cold Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) No. 4 Pickling Line, constructed in 1958, including acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 178.

(2) No. 5 Picking Line, including scale breaker mill, acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 176.

(3) 56 inch Tandem Mill (4 Stands) controlled by a mist eliminator exhausting through stack 177.

(4) 80 inch Tandem Mill (5 Stands) controlled by a mist eliminator exhausting through stack 175.

(5) Temper Mill No. 28 exhausting through stack 180.

(6) Temper Mill No. 29 exhausting through stack 181.

(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 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 20-1-1, 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 for Steel Pickling - HCI Process Facilities and Hydrochloric Acid Regeneration Plants [40 CFR 63, Subpart CCC] [40 CFR 63.1157]

Pursuant to 40 CFR 63, Subpart CCC, the Pickling Line (S6A) shall comply with the following requirements:

(a) The Permittee shall not cause or allow to be discharged into the atmosphere from the affected pickling line:

(1) Any gases that contain HCI in a concentration in excess of 18 ppmv; or

(2) HCI at a mass emission rate that corresponds to a collection efficiency of less than 97 percent.

D.11.3 NESHAP Maintenance Requirements [40 CFR Part 63.1160, Subpart CCC]

The Permittee shall comply with the operation and maintenance requirements of 40 CFR Part 63.6(e) (Subpart A, General Provisions) at the No. 4 Pickling Line and No. 5 Pickling Line. 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 airflow.

(e) If the scrubber is not equipped with a viewport 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 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from each No.4 Pickling Line (178), No. 5 Pickling Line (176), 56 in Tandem Mill (177), 80 in. Tandem Mill (175), Temper Mill No. 28 (180) and Temper Mill No. 29 (181) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.11.5 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 this facility and any control devices.

Compliance Determination Requirements

D.11.6 Testing Requirements [40 CFR 63.1161] [40 CFR 63.1162]

(a) Within twelve (12) months of permit issuance, the Permittee shall conduct a performance test for the Pickling Line (S6A) to determine and demonstrate compliance with the applicable emission limitation according to the requirements of 40 CFR 63.7 (Subpart A, General Provisions). This initial performance test 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 HCI at the inlet and the outlet of the control device (to determine compliance with the applicable collection efficiency standard) or measure the concentration of HCI 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 half (2 .5) 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 Monitoring Requirements [40 CFR 63.1162]~~

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 63.1160(b)(2).

(b) Failure to record each of the operating parameters in 40 CFR 63.1162(a)(2) is a violation of the monitoring requirements of 40 CFR 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.

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

D.11.8 Record Keeping Requirements

(a) To document compliance with Condition D.11.3, the Permittee shall maintain the following records pursuant to 40 CFR Part 63.1165:

(1) The Permittee, as required by 40 CFR Part 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 (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. This information can be recorded in a checklist or similar form (see 40 CFR Part 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 the provisions of 40 CFR 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 63, Subpart CCC records, for the most recent 2 years of operation must be maintained on site for 2 years. 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, of this permit.

D.11.9 Reporting Requirements [40 CFR 63.1164]

(a) As required by 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 the 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 owner/operator 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) Reports shall be submitted in accordance with Section C - General Reporting Requirements of this permit.

SECTION D.12 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(m) Coated Products comprised of the following facilities, process equipment, and operational practices:

(1) No. 3 Galvanizing Line constructed in 1955, including:

(A) One (1) natural gas fired Non-Oxidizing Furnace with an estimated maximum heat input of 62 MMBtu/hr, equipped with recuperators waste gas burners exhausting through stack 81.

(B) One (1) natural gas fired reducing furnace with an estimated maximum heat input of 12.8 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented inside the building (open roof monitor-81A).

(2) No. 5 Galvanizing Line constructed in 1968, including:

(A) One (1) natural gas fired Radiant tube reducing furnace utilizing recuperative radiant tube burners with a an estimated maximum heat input of 112.6 MMBtu/hr, exhausting through stack 182.

(B) One (1) natural gas fired Galvanneal Furnace with an estimated maximum heat input of 36 MMBtu/hr, exhausting inside the building (open roof monitor)-182A.

(3) No. 4 Aluminizing Line constructed in 1955, including:

(A) One (1) natural gas fired Oxidizing Furnace with an estimated maximum heat input of 27 MMBtu/hr exhausting through stack 84.

(B) One (1) natural gas fired 4-line radiant tube reducing furnace section with an estimated maximum heat input of 19.14 MMBtu/hr, equipped with low NOx twin regenerative burners, exhausting through stack 84.

(C) hot dip Al/Si Pot, roll preheater and premelt furnace.

(4) No. 1 Normalizer constructed in 1957, including:

(A) One (1) natural gas fired reducing furnace with 193 natural gas fired Eclipse SER burners with a total heat input of 31.652 MMBtu/hr exhausting through stack 183.

(B) One (1) natural gas fired flame heater furnace with an estimated maximum heat input of 28 MMBtu/hr annealing furnace exhausting through stack 183

(C) One (1) acid cleaning tank using hydrochloric acid and one (1) cascade rinse tank with emissions controlled by a fume scrubber and exhausting through stack 184.

(5) No. 3 Continuous Anneal Line constructed in 1982, including:

(A) One (1) natural gas fired Annealing Furnace and One (1) natural gas fired Age Furnace with an estimated total maximum heat input of 108 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented through stack 173.

(B) One (1) acid cleaning tank using hydrochloric acid with emissions controlled by a fume scrubber and exhausting through stack 174.

(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)]:

(6) Batch Anneal Facilities including:

(A) No. 5 Batch Anneal constructed in 1958, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with an estimated maximum heat input of 136 MMBtu/hr exhausting through stack 112.

(B) No. 6 Batch Anneal constructed in 1970, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with an estimated maximum heat input of 205 MMBtu/hr exhausting through stack 113.

(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 NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart 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.

D.12.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 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 November 12, 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(b), the Permittee must comply with these requirements on and after September 13, 2007.

(b) The following emissions unit comprises the affected source for the large gaseous fuel subcategory:

No. 3 Galvanizing Line Radiant Tube Reducing Furnace (13 MMBtu/hr)
No. 4 Aluminizing Line Radiant Tube Reducing Furnace (19 MMBtu/hr)
No. 5 Galvanizing Line Radiant Tube Reducing Furnace (113 MMBtu/hr)
No. 3 Continuous Annealing and Aging Furnaces (85 MMBtu/hr)
No. 5 Batch Annealing Furnaces (136 MMBtu/hr)

(c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.

(d) 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.

D.12.3 Particulate Matter [326 IAC 6.8-6]

Pursuant to326 IAC 6.8-6-10 (formerly 326 IAC 6-1-10.1(h)(13)), the following combustion sources shall fire natural gas only and comply with the following:

(a) No.3 Galvanizing Line (81) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.51 lbs/hour

(b) No. 5 Galvanizing Line (182) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.44 lbs/hour

(c) No. 1 Normalizing Line (184) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and

0.13 lbs/hour

(d) No. 3 Continuous Anneal Line (173) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.25 lbs/hour

(e) No. 5 and No. 6 Batch Anneals (112 and 113) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.987 lbs/hour

D.12.4 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the reducing furnace (81A), galvanneal furnace (182A), No.4 Aluminizing line (84), flame heating furnace (183) and annealling furnace (174) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.12.5 No. 4 Aluminizing Line Radiant Tube Reducing Furnace Limitations

Pursuant to CP 45-1854, issued on July 11, 1990, the furnace shall be fired by natural gas and rated at 19.136 MMBtu/hr heat input.

D.12.6 Opacity

Pursuant to CP 45-1854, issued on July 11, 1990, opacity from any stack, other process exhaust, building roof monitor, or building opening due to operation of the No. 4 Aluminizing line radiant tube furnace shall not exceed 5% opacity, per 40 CFR, Part 60, Appendix A, Method 9 and 326 IAC 5-1.

D.12.7 Sulfur Dioxide (SO2) [326 IAC 7-4.1-1]

(a) Pursuant to CP 089-3551, issued on October 28, 1994 and 326 IAC 7-4.1-1, SO2 emissions from burners at the No. 1 Normalizer Line (184) shall be minimized by firing natural gas only.

(b) Pursuant to 326 IAC 7-4.1-1, SO2 emissions from the No. 5 and No.6 Batch Anneal furnaces (112 and 113), shall be minimized by firing natural gas only.

D.12.8 Nitrogen Oxide (NOx) [326 IAC 2-2]

(a) Pursuant to CP 089-4940, issued on June 19, 1996, only natural gas shall be fired in the No. 5 Galvanizing Line recuperative radiant tube burners and NOx emissions shall not exceed three hundred-fifty (350) pounds per million cubic feet of natural gas burned and existing burners shall be removed. The total maximum heat input shall not exceed 74.9 MMBtu/hr.

(b) Pursuant to CP 45-1854, issued on July 11, 1990, No. 4 Aluminizing Line radiant tube furnace NOx emissions shalll be limited to 0.375 lb/MMBtu, 7.2 lb/hr and 31.43 tpy.

(c) Pursuant to CP 089-3551, issued on October 28, 1994, the NOx from the No. 1 Normalizer radiant tube annealing furnace shall not exceed 0.43 lbs/MMBtu heat input.

(d) Pursuant to CP 089-8672, issued on June 15, 1998, NOx potential to emit from No. 5 and No.6 Batch Anneal facilities shall not exceed a total of 0.2 lbs/MMBtu. This is equivalent to 20.19 tons per year.

D.12.9 Carbon Monoxide (CO)[326 IAC 2-2]

Pursuant to CP 45-1854, issued on July 11, 1990, No. 4 Aluminizing Line radiant tube furnace CO emissions shall be limited to 0.02 lb/MMBtu, 0.4 lb/hr and 1.7 tpy.

D.12.10 Emission Offsets [326 IAC 2-3]

(a) Pursuant to CP 089-3551, issued on October 28, 1994, a total reduction of NOx, 140.7 tons per year (54.1 X 2.6) shall be achieved by the use of credited reduction from the permanent shutdown of the No. 2 AC Station Boilers 207-210 to achieve an internal offset of a 1.3 tons of NOx decrease for each 1.0 ton of NOx increase in lieu of the implementation of lowest

achievable emission rate (LAER) to comply with 326 IAC 2-3-2(b)(3) and an additional minimum offset at the No. 2 AC Station Boilers 207-210 of 1.3 tons of NOx decrease for each 1.0 ton of NOx increase to comply with 326 IAC 2-3-3(a)(5).

(b) Pursuant to CP 089-3551, issued on October 28, 1994, the Permittee shall:

(1) maintain a permanent shutdown of its Nos.6, 7, 8, 9, 10 and 11 Coke Oven Batteries

(2) maintain a permanent shutdown of its No. 2 Bloomer and shall not restart the No. 2 Bloomer without obtaining approved construction permits from IDEM OAQ

(3) not restart Nos. 1 and 2 Blast Furnaces

(4) not restart No. 3 Open Coil Anneal

(5) maintain a permanent shut down of six (6) pits at its No. 4 Slabber and not restart any of the pits without first obtaining approved construction permits from IDEM OAQ

(c) Pursuant to CP 089-4940, issued on June 19, 1996, the 234.5 ton per year NOx reduction at No. 5 Galvanizing Line radiant tube furnaces required by 326 IAC 2-3-3(a) (2) shall be achieved by the shutdown of the following: 7.2 ton per year from open coil annealing furnace, 87.2 ton per year from No. 2 Bloomer, 67.7 ton per year from No. 1 Galvanizing line, 50.6 ton per year from No. 4 Slab Pits 1-18 and 22 ton per year from No. 8 Coke Battery.

(d) Pursuant to CP 089-8672, issued on June 15, 1998 and 326 IAC 2-3-3(a)(5)(B), the NOx emissions from the No. 5 and No. 6 Batch Anneal Facilities are additionally offset by a ratio of 1.3 to 1.0 as a substitute for lowest achievable emission rate (LAER). This requires a reduction of 10.83 tons per year of NOx, which will be deducted from the NOx emission decrease credit from the retirement of the No. 3 AC Station.

(e) Pursuant to CP 089-8672, issued on June 15, 1998 and 326 IAC 2-3, the anneal bases (No's 903-908) and three (3) new attendant furnaces (each furnace rated at 5.94 MMBtu/hr) at No. 6 Annealing Furnace shall not begin operation until the old facilities (bases No. 6-9, 16-19 and 26-29) and their attendant eight (8) old furnaces (each furnace rated at 4.8 MMBtu/hr) are removed from service.

D.12.11 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 this facility and any control devices.

Compliance Determination Requirements

D.12.12 Particulate Matter (PM)

The scrubbers used in conjunction with the No. 1 Normalizing Line (184) Cleaning Line and No. 3 Continuous Anneal Line (173) Cleaning Line shall be operated at all times that the respective Lines are operating.

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

D.12.13 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 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 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 shall be submitted no later than nine (9) months prior to September 13, 2007.

(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

SECTION D.13 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(n) Utilities comprised of the following facilities, process equipment, and operational practices:

(1) No. 2 AC Station including:

(A) Three (3) Boilers identified as 211-213, fired by natural gas and blast furnace gas from No. 5 and No. 6 blast furnaces:

(i) Boiler 211 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 125 and 126.

(ii) Boiler 212 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 127 and 128.

(iii) Boiler 213 with an estimated maximum heat input of 468 MMBtu/hr, installed in 1949 exhausting through stacks 129 and 130.

(B) Two (2) Blast Furnace Gas Flares to burn excess blast furnace gas from No. 5 and No. 6 Blast Furnaces exhausting through stack 131.

(C) Nine (9) turbo blowers and five (5) electricity generators.

(2) No. 5 Boilerhouse installed in 1976, including Boilers 501-503 fired by blast furnace gas from No. 7 blast furnace and mixed gas, each with an estimated maximum heat input of 520 MMBtu/hr exhausting through stack 134. The boilers produce steam, which is used in three turbo blowers to produce blast air, at generators to produce electrical power, and for general plant use.

(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 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart 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.

D.13.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 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 November 12, 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(b), the Permittee must comply with these requirements on and after September 13, 2007.

(b) The following emissions unit comprises the affected source for the large gaseous fuel subcategory:

No.2 AC Station Boilers 211-213
No. 5 Boilerhouse 501-503.

(c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.

(d) 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.

D.13.3 Particulate Matter [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)) (Lake County PM10 Requirements), PM10 emissions from the Utilities operations shall not exceed the following:

(a) PM10 emissions from the No.2 AC Station Boilers 211-213 shall not exceed 0.018 lbs/ MMBtu and 16.20 pounds per hour

(b) PM10 emissions from the No. 5 Boilerhouse 501-503 shall not exceed 0.013 lbs/ MMBtu and 18.05 pounds per hour

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

D.13.4 Sulfur Dioxide (SO_2) [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide emission rate from these units shall be limited to the following:

(a) SO_2 emissions from No.2 AC Station Boilers 211-213, shall not exceed 0.140 lbs/ MMBtu each and 168 lbs/hour total.

(b) SO_2 emissions from No. 5 Boilerhouse 501-503, shall not exceed 0.198 lbs/MMBtu and 265.2 lbs/hour.

D.13.5 Carbon Monoxide (CO) - Best Available Control Technology [326 IAC 2-2-3]

(a) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the carbon monoxide emissions from the various stacks associated with the No.7 Blast Furnace shall not exceed the following limitations:

Stack ID, associated equipment	Type of fuel combusted at the equipment	CO emissions limitations (pound/MMSCF of fuel)
134, No.5 Boiler House	Blast Furnace Gas	13.7
	Natural Gas	84
	Combination gas (a mix of natural gas and blast furnace gas)	$\frac{\text{13.7 X Usage of BFG (MMSCF)+ 84 X Usage of NG (MMSCF)}}{\text{Total usage of BFG and NG (MMSCF)}}$

(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under condition D.13.10 show that the CO emission limitations in condition D.13.5 are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emissions limitations in D.13.5(a). The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to this permit modification.

D.13.6 NOx Budget Unit Exemption [326 IAC 10-4-3]

Pursuant to 326 IAC 10-4-3 (Retired unit exemption), No. 4 AC Boilers 401 through 405 shall be exempt from the NOx Budget trading program, except for the provisions of 326 IAC 10-4-3 and 326 IAC 10-4-1, 10-4-2, 10-4-5, 10-4-9, 10-4-10, and 10-4-11. The Permittee submitted a NOx Budget Retired Unit Exemption notice on May 28, 2003 for No. 4 AC Boilers 401 through 405. The notice stated No. 4 AC Boilers 401 through 405 are permanently retired as of June 30, 2003. Therefore, the Permittee shall comply with the following:

(a) The units shall not emit any nitrogen oxides, starting on June 30, 2003.

(b) The owners and operators of the units shall be allocated allowances in accordance with 326 IAC 10-4-9. For each ozone control period for which the unit is allocated one (1) or more NOx allowances, the owners and operators of the unit shall specify a general account, in which U.S. EPA will record the NOx allowances.

(c) The unit shall not resume operation unless the NOx authorized account representative of the source submits a complete NOx budget permit application under 326 IAC 10-4-7(c) for the unit not less than two hundred seventy (270) days prior to the later of:

(1) May 31, 2004; or

(2) the date on which the unit is to first resume operation.

(d) The owners and operators and, to the extent applicable, the NOx authorized account representative shall comply with the requirements of the NOx budget trading program concerning all periods for which the exemption is not in effect, even if the requirements arise, or must be complied with, after the exemption takes effect.

(e) A unit that is exempt under this section is not eligible to be a NOx budget opt-in unit under 326 IAC 10-4-13.

(f) A unit exempt under 326 IAC 10-4-3(b) shall lose its exemption on the earlier of the following dates:

(1) The date on which the NOx authorized account representative submits a NOx budget permit application under subdivision (3) or (4).

(2) The date on which the NOx authorized account representative is required under subdivision (3) or (4) to submit a NOx budget permit application.

For the purpose of applying monitoring requirements under 40 CFR 75, Subpart H, a unit that loses its exemption under this section shall be treated as a unit that commences operation or commercial operation on the first date on which the unit resumes operation.

D.13.7 Equipment and Operational Specifications [326 IAC 2-2]

Pursuant to CP 089-3551 issued on October 28, 1994, the Permittee shall limit the use of Blast Furnace Gas and natural gas up to a maximum of 1410 MMBtu/hr in all boilers inclusive or in any boiler combination in lieu of oil as fuel at No. 2 AC Station.

D.13.8 Operation Restriction – Shutdown of No.4 AC Station [326 IAC 2-2][326 IAC 2-3]

(a) Pursuant to 326 IAC 2-2 and 326 IAC 2-3, within 30 days after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, five (5) coal fired boilers identified as 401, 402, 403, 404 and 405 that form the part of 4 AC station and all the associated equipment for the operation of these boilers shall be shutdown permanently. In addition within 180 days of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003 or before the restart of the No.7 Blast Furnace operation after the reline project in 2003, these boilers shall be physically disconnected and permanently removed from service.

(b) On and after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, the Permittee shall request the IDEM, OAQ to remove the 4 AC station and all the associated equipment permanently from the emissions inventory maintained by the State.

(c) This condition supercedes all conditions in previous permits that allow the operation of the 4 AC station and its associated equipment.

D.13.9 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 this facility and any control devices.

Compliance Determination Requirements

D.13.10 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

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

D.13.11 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.13.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

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

D.13.12 Record Keeping Requirements

(a) To document compliance with Conditions D.13.4 and D.13.11, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) To document compliance with D.13.6 and 326 IAC 10-4-3(e)(7), the Permittee shall retain records at the source, or at a central location within Indiana for those owners or operators with unattended sources, demonstrating that the units are permanently retired for a period of five (5) years. The five (5) year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the department of the U.S. EPA. Records retained at a central location within Indiana shall be available immediately at the location and submitted to the department or U.S. EPA within three (3) business days following receipt of a written request.

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

D.13.13 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D.13.4 and D.13.12 (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.13.14 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 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 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 shall be submitted no later than nine (9) months prior to September 13, 2007.

(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

SECTION D.14 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(o) Shops comprised of the following facilities, process equipment, and operational practices:

(1) Mold Foundry Building: Pugh Ladle Car Preparation, dekishing, debricking and drying fired by natural gas (44) and Pugh ladle lancing fired by natural gas with emissions controlled by former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle pigging emissions resulting from the adjacent contractor's operation.

(2) No. 6 Roll shop for 12 inch bar mill including shotblaster with emissions controlled by a baghouse and exhausting through stack 200.

(3) Electric Shop including shotblaster with emissions controlled by a baghouse and exhausting through stack 201, blaster baghouse unloading, paint booth, varnish dip tanks and undercutting booth.

(4) No. 4 Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 203, Wheelabrator shotblaster with emissions controlled by a baghouse and exhausting through stack 204.

(5) No. 4 A Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 205 and Pangborn shotblaster with emissions controlled by a baghouse and exhausting through stack 206.

(6) No. 5 Roll Shop.

(7) Mobile Equipment shop including refrigerant recovery and parts cleaning.

(8) Equipment Repair Shop including Machine Shop (Plant 2).

(9) Mason Building Shop.

(10) Refrigeration Shop.

(11) Fabrication and Repair Shop (Plant 1).

(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 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), TSP and PM10 emissions from the Shop operations shall not exceed the following:

(a) PM10 emissions from the former mold foundry baghouse (43) shall not exceed 0.011 gr/dscf and 26 lbs/hr.

(b) TSP emissions from the No. 6 roll shop rollshot blaster baghouse (200) shall not exceed 0.0052 gr/dscf and 0.200 lbs/hr.

(c) TSP emissions from the Electric shop shotblaster baghouse (201) shall not exceed 0.0052 gr/dscf and 1.070 lbs/hr.

(d) TSP emissions from the No. 4 roll shop Ervin shotblaster baghouse (203) shall not exceed 0.0052 gr/dscf and 0.210 lbs/hr.

(e) TSP emissions from the No. 4 roll shop Wheelabrator shotblaster (204) baghouse shall not exceed 0.0052 gr/dscf and 0.260 lbs/hr.

(f) TSP emissions from the No. 4A roll shop Ervin shotblaster baghouse (205) shall not exceed 0.0052 gr/dscf and 0.210 lbs/hr.

(g) TSP emissions from the No. 4A roll shop Pangborn shotblaster (206) baghouse shall not exceed 0.0052 gr/dscf and 0.260 lbs/hr.

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

D.14.2 Emission Offsets [326 IAC 2-2][326 IAC 2-3]

The pugh car lancing operation and the dekishing and debricking operations shall be conducted inside the mold foundry building as required in CP No. 089-2905 issued on March 29, 1993. The emissions from the lancing operations, shall be captured and exhausted to the former mold foundry baghouse with particulate matter emissions not to exceed 26.0 pounds per hour and 0.011 grains per dry standard cubic foot of exhaust air. The iron dumping operation, which accompanied these operations has been replaced by pigging. However, in an emergency or when the pig machine is not available, iron dumping is used. Lancing of Pugh Ladles shall not occur simultaneously with Pugh ladle pigging operations at the adjacent contractor. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply.

D.14.3 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the SO_2 emissions from the pigging ladle facility (43) shall not exceed 0.020 lbs/ton and 4.000 lbs/hour.

D.14.4 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 this facility and any control devices.

Compliance Determination Requirements

D.14.5 Particulate Control [326 IAC 2-7-6(6)]

(a) The former Mold Foundry, No. 6 Roll shop, Electric shop and No. 4 Roll Shop baghouses shall be operated at all times that related processes at the subject facilities are operating. At the former Mold Foundry that equipment includes Pugh Ladle Car Lancing-.

(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, replaced, blanked or isolated. 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.14.6 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the former mold foundry baghouse (43) stack exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.14.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse used in conjunction with the former mold foundry baghouse (43) stack when process is in operation once per day and is venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 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 Exceedences. A reading that is outside the ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedences shall be considered a deviation of this permit.

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.14.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

For a single compartment baghouse-controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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 Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.14.9 Record Keeping Requirements

(a) To document compliance with Condition D.14.6 the Permittee shall maintain records of once per day visible emission notations of the former mold foundry baghouse (43) stack exhausts.

(b) To document compliance with Condition D.14.7, the Permittee shall maintain once per day records of the pressure drop across the former mold foundry baghouse (43) during normal operation when venting to the atmosphere.

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

SECTION D.15 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(p) Storage Vessels:

(1) One (1) 21,380 gallon tank (T19K1) containing Diesel No. 2, located at the "E" Yard – Internal Logistics, constructed prior to 1972.

(2) One (1) 21,380 gallon tank (T-8H1) containing Diesel No. 2, located at the "B" Yard – 2 BOF, constructed prior to 1972.

(3) One (1) 10,000 gallon tank (T20K-1) containing Diesel No. 2, located at the Main Shop Fueling Station – Internal Logistics, constructed in 1997.

(4) One (1) 8,000 gallon tank (T02E-1) containing Diesel No. 2, located south of the bar company scrap yard - 12" Bar Mill constructed in 1999.

(5) One (1) 7,500 gallon tank (T1G-1) containing Diesel No. 2, located north of the Electric Furnace Billet Caster constructed in 1999.

(6) One (1) 6,000 gallon tank (T25E-1) containing Diesel No. 2, located at the No. 7 Blast Furnace Emergency Pump House, constructed in 1994.

(7) One (1) 5,000 gallon tank (T17P-1) containing Diesel No. 2, located at the 80" Hot Strip Mill coil carrier fuel station, constructed in 1994.

(8) One (1) 4,200 gallon tank (T10-200) containing Diesel No. 2, located at the No. 3 Cold Strip East bulk oil storage area constructed in 1970.

(9) One (1) 3,355 gallon tank (T18E-1) containing Diesel No. 2, located at the #4 BOF Mobile Equipment Shop, constructed in 1994.

(10) Two (2) 3,000 gallon tanks (T10-232a & T10-232b) containing Power Clean, located at the No. 3 Cold Strip East, Nos. 4 and 5 Hydraulic System, constructed in 1970.

(11) One (1) 130,000 gallon tank (T-17F1) containing Reclaimed oil, located at the Lime Plant, constructed in 1973.

(12) One (1) 1,016,000 gallon tank (T-6E1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1992.

(13) One (1) 1,016,000 gallon tank (T-6F1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(14) One (1) 1,016,000 gallon tank (T-6F2) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(15) One (1) 500,000 gallon tank (T-6F3) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1975.

(16) One (1) 100,000 gallon tank (T-02F1) containing #6 fuel oil, located at the 12" Bar Mill, constructed in 1977.

(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)]:

(17) Two (2) 30,000 gallon tanks (T11-12a & T11-12b) containing regenerated Hydrochloric Acid located north of bulk storage building No. 3 Cold Strip West, designated as #1 elevated tank and #2 elevated tank, constructed in 1970.

(18) Two (2) 30,000 gallon tanks (T11-12c & T11-12d) containing regenerated Hydrochloric Acid located west of bulk storage building No. 3 Cold Strip West, designated as Tank #4 and Tank #5, constructed in 1999.

(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.15.1 Volatile Organic Storage Vessels [40 CFR Part 60, Subpart Kb]

The 1,016,000 gallon storage tank (T-6E1) is subject to 40 CFR Part 60, Subpart Kb because the maximum capacity of the tank is greater than 40 m^3 and is used to store volatile organic liquids for which construction, reconstruction, or modification commenced after July 23, 1984. Pursuant to this rule, the Permittee must maintain records as required by 40 CFR 60.116b(a) and 60.116b(b).

D.15.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1, the Permittee is required to keep records on the information in 326 IAC 8-9-6(a)-(b) for all storage vessels containing recycled oil, #2 fuel oil, #6 fuel oil, bunker oil and reclaim oil.

D.15.3 NESHAP Operational and equipment standards [40 CFR Part 63.63.1159, Subpart CCC] Hydrochloric acid storage vessels

The Permittee shall provide and operate, except during loading and unloading of acid, a closed-vent system for tanks T11-12a, T11-12b, T11-12c, and T11-12d. 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.

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

D.15.4 Monitoring Requirements [40 CFR P art 63.1162]

The Permittee shall inspect tanks T11-12a, T11-12b, T11-12c, and T11-12d 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 and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.15.5 Record Keeping Requirements

Pursuant to 40 CFR Part 60.116b the requirements for tank T-6E1 are as follows:

(a) The Permittee shall keep copies of all records required by 40 CFR Part 60.116b (a), except for the record required by 40 CFR Part 60.116b (b), for at least 2 years. The record required by 40 CFR Part 60.116b(b) will be kept for the life of the source.

(b) The Permittee of each storage vessel as specified in 40 CFR Part 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

D.15.6 Record Keeping Requirements

Pursuant to 326 IAC 8-9, the Permittee must keep records of the following:

(a) The vessel identification number;

(b) The vessel dimensions; and

(c) The vessel capacity.

Records shall be maintained for the life of the vessel.

SECTION D.16 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Specifically Regulated Insignificant Activities:

(1) 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]

(2) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]

(3) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.8-1-2]

(4) 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]

(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 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), grinding and machining operations shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.16.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]

Pursuant to 326 IAC 8-9-1, the Permittee is required to keep records on the information in 326 IAC 8-9-6(a)-(b) for all Volatile Organic liquid storage vessels.

D.16.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter and St. Joseph Counties and which have 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.

D.16.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Lake, County, the Permittee 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.

Compliance Determination Requirement

D.16.5 Particulate Control

In order to comply with D.16.1, the control equipment for particulate control shall be in operation and control emissions from the grinding and machining operations at all times that the grinding and machining operations are in operation.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.16.6 Record Keeping Requirements

Pursuant to 326 IAC 8-9, the Permittee must keep records of the following:

(a) The vessel identification number;

(b) The vessel dimensions; and

(c) The vessel capacity.

Records shall be maintained for the life of the vessel.

D.16.7 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 Clark, Floyd, Lake, and Porter Counties, 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.

SECTION E Nitrogen Oxides Budget Trading Program - NO_X Budget Permit for NO_X Budget Units Under 326 IAC 10-4-1(a)

ORIS Code: 10474

NO_X Budget Source [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Utilities comprised of the following facilities, emission units, process equipment, and operational practices:

(1) No. 2 AC Station including Boilers 211-213, fired by blast furnace gas from No. 5 and No. 6 blast furnaces and natural gas exhausting through combustion stacks 125-130, installed in 1948 and 1949

(2) No. 5 Boilerhouse including Boilers 501-503, fired by blast furnace gas from No. 7 blast furnace and mixed gas, exhausting through stack 134, installed in 1976

E.1 Automatic Incorporation of Definitions [326 IAC 10-4-7(e)]

This NO_X 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 NO_X budget source and each NO_X budget unit shall operate each unit in compliance with this NO_X budget permit.

The NO_X budget units subject to this NO_X budget permit include the following: No. 2 AC Station, including Boilers 211-213, and No. 5 Boilerhouse, including Boilers 501-503.

E.3 Monitoring Requirements [326 IAC 10-4-4(b)]

(a) 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) 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 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.

(b) 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.

(c) Each NO_X 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) 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.

(e) A NO_X 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 NO_X allowance was allocated.

(f) 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.

(g) A NO_X allowance allocated under the NO_X 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 NO_X allowance to or from each 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.

E.5 Excess Emissions Requirements [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:

(a) Surrender the NO_X 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 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:

(a) 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.

(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 NO_X budget trading program.

(d) 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 the department 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 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.

(b) Pursuant to 326 IAC 10-4-6(e), each submission shall include the following certification statement by the NO_X authorized account representative: "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."

Where 326 IAC 10-4 requires a submission to IDEM, OAQ, the NO_X 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

Where 326 IAC 10-4 requires a submission to U.S. EPA, the NO_X 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 NO_X budget source shall be liable as follows:

(a) Any person who knowingly violates any requirement or prohibition of the NO_X budget trading program, a NO_X 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 NO_X 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 NO_X budget trading program that occurs prior to the date that the revision takes effect.

(d) Each NO_X budget source and each NO_X budget unit shall meet the requirements of the NO_X budget trading program.

(e) Any provision of the NO_X budget trading program that applies to a NO_X budget source, including a provision applicable to the NO_X authorized account representative of a NO_X budget source, shall also apply to the owners and operators of the source and of the NO_X budget units at the source.

(f) Any provision of the NO_X budget trading program that applies to a NO_X budget unit, including a provision applicable to the NO_X authorized account representative of a NO_X 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 NO_X authorized account representative of one (1) NO_X budget unit shall not be liable for any violation by any other NO_X budget unit of which they are not owners or operators or the NO_X authorized account representative and that is located at a source of which they are not owners or operators or the NO_X authorized account representative.

E.9 Effect on Other Authorities [326 IAC 10-4-4(g)]

No provision of the NO_X budget trading program, a NO_X budget permit application, a NO_X 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 NO_X authorized account representative of a NO_X budget source or NO_X budget unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the CAA.

SECTION F FUGITIVE DUST SOURCES

Facility Description [326 IAC 2-7-5(15)]:

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

(1) Paved Roads and Parking Lots

(2) Unpaved Roads and Parking Lots

(3) Batch Transfer-Loading and Unloading Operations

(4) Continuous Transfer In and Out of Storage Piles

(5) Batch Transfer Operations-Slag and Kish Handling

(6) Wind Erosion from Storage Piles and Open Areas

(7) In Plant Transfer by Truck or Rail

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

(9) Material Processing Facility (except Crusher Fugitive Emissions)

(10) Crusher Fugitive Emissions

(11) Material Processing Facility Building Openings

(12) Dust Handling Equipment

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

F.1 Fugitive Dust Emissions [326 IAC 6.8-10]

(a) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(1) Paved roads and Parking Lots.

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

(i) The first shall be taken at the time of emission generation.
(ii) The second shall be taken five (5) seconds later.
(iii) The third shall 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) The Permittee shall implement the control measures specified by 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(3)(F)) within twenty-four (24) hours after notification by the IDEM, OAQ or U.S.EPA of violating the average instantaneous opacity limit. A violation of the instantaneous average

opacity limit is a violation of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

(C) When requested by the department or the U.S. EPA, after an exceedance of the opacity limit is observed by a representative of either agency, the source shall initiate a compliance check with the surface silt loading limit. The department may require a revision of the control plan under subsection 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(8)), if the test shows an exceedance of the surface silt loading limit.

(2) Unpaved Roads and Parking Lots.

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

(i) The first shall be taken at the time of emission generation.
(ii) The second shall be taken five (5) seconds later.
(iii) The third shall 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) The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the control plan required in 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1 (e)). The department may request a revision of the control plan pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1(e)(8)), if an observation shows an exceedance of the average instantaneous opacity limit. The revision may be in lieu of, or in addition to, pursuing an enforcement action for a violation of the limit.

(3) Material Transfer Limits.

(A) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). 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.

(B) 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 a material processing facility as defined in 326 IAC 6.8-10-2 (formerly 326 IAC 6-1-11.1(c)) or material transfer for transportation within or outside the source property including, but not limited to, the following:

(i) Transfer of slag product for use by asphalt plants:

(AA) From a storage pile to a front end loader; and
(BB) From a front end loader to a truck.

(ii) Transfer of sinter blend for use at the sinter plant:
(AA) From a storage pile to a front end loader;
(BB) From a front end loader to a truck; and
(CC) From a truck to the initial processing point.

(iii) Transfer of coal for use at a coal processing line:
(AA) From a storage pile to a front end loader; and
(BB) 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.

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

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

(ii) 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 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(9)).

(4) 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. 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.

(5) Wind erosion from storage piles and exposed areas.

(A) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. 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. These 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 periods of sustained very high wind speeds, the Permittee 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.

(B) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. These 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 periods of sustained very high wind speeds, the Permittee 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.

(6) Inplant Transportation of Material by Truck or Rail.

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. 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.

(7) Inplant Transportation of Material by Front End Loader or Skip Hoist.

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%). 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:

(A) The first shall be taken at the time of emission generation.

(B) The second shall be taken five (5) seconds later.

(C) The third shall 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.

(8) Material Processing Facilities.

(A) The PM_{10} stack emissions from each material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration limitation shall be determined using the test methods found in 326 IAC 6.8-4-1 (formerly 326 IAC 6-1-10.1(f)). Compliance with the opacity limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(B) The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(C) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(D) 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. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22.

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

(10%) opacity. Compliance with the concentration standard shall be determined by 40 CFR 60, Appendix A, Method 5 or 17, and with the opacity standard by 40 CFR 60, Appendix A, Method 9.

(9) Dust Handling Equipment. The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%). Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.

(10) Any facility or operation not specified in 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(1)-(8)) shall meet a twenty percent (20%), three (3) minute opacity standard. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9, except that the opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals. Compliance of any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.

(b) The Permittee is subject to 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q)) (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

(c) Permittee has submitted a Fugitive Dust Control Plan to the IDEM in accordance with 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) and has been attached to the Part 70 Permit. Permittee shall keep records consistent with its Fugitive Dust Control Plan.

SECTION G

Facility Description [326 IAC 2-7-5(15)]:

The affected sources are each new or existing sinter plant windbox exhaust, discharge end, and sinter cooler; the blast furnace casthouse; and the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy

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

G.1.1 General Provisions Relating to 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, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee must comply with the following requirements:

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, blast furnace, and basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.
(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler; the blast furnace casthouse; and the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).
(d) A sinter plant, blast furnace, or 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.

§ 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 emissions 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.

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 emissions from a sinter plant discharge end or blast furnace casthouse or 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.

(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 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 baghouses equipped with bag leak detection systems or continuous opacity monitoring systems (COMS). In the event a bag leak detection system alarm is triggered or emissions from a baghouse equipped with a COMS exceed an hourly average opacity of 5 percent, 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 action procedures for venturi scrubbers equipped with continuous parameter monitoring systems (CPMS). In the event a venturi 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.

§ 63.7821 When must I conduct subsequent performance tests?

(a) You must conduct subsequent performance tests to demonstrate compliance with applicable PM and opacity limits in Table 1 to this subpart at 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 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 or 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).

(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.

(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.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end or 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.

(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.

(e) To determine compliance with the applicable opacity limit in Table 1 to this subpart for 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 site 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 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) and (b) 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.

(e) 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 (e)(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); and

(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(d) 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 or blast furnace casthouse or 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 other contol 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 or blast furnace casthouse, 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.
  (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 subsection, 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 requirement 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)(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.

(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(d); 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(e).

§ 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);

(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 equipped with a bag leak detection system according to §63.7790 (b) (1), 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 meeting the requirements in paragraphs (c)(1) or (2) 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 to document conformance with these requirements
(4) Maintaining records of the time you initiated corrective actions 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.

(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(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(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 precipator 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;

(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 actions 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).
(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. This definition does not include vacuum degassing.
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 at an existing sinter plant.....	You must not cause to be discharged to the atmosphere any emissions that exhibit opacity greater than 10 percent (6-minute average).
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).
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\; 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 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	You must not cause to be discharged at a new or existing BOPF shop 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 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 an 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 concentration limit (gr/dscf) for a device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside the 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 . . .
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)..
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 exceed 0.01 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).
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; 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.
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.
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.
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(d), 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 . . .
1. Each windbox exhaust stream at an existing sinter plant...	a. Maintaining emissions of particulate matter at or below 0.4 lb/ton of product sinter; and b. Conducting subsequent performance tests 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 frequencies specified in § 63.7821.
5. Each sinter cooler stack at an existing sinter plant....	a. Maintaining the opacity of emissions that exit any sinter cooler at or below 10 percent (6-minute average); and b. Conducting subsequent performance tests frequencies specified in § 63.7821.
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

b. Conducting subsequent performance tests frequencies specified in § 63.7821.

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 an 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 BOPFshop or 0.0052 gr/dscf for a new BOPF shop; and;

d. Conducting subsequent performance tests 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 gr/dscf at an existing BOPF or 0.003 gr/dscf for a new BOPF; and

b. Conducting subsequent performance tests 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 0.01r/dscf at an existing BOPF shop or 0.004 gr/dscf for a new BOPF shop; and

b. Conducting subsequent performance tests 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 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 and	Yes	

(d), (e), (f), (g), (h)(2)(ii)-(h)(9).	Maintenance Requirements.		
§ 63.6(h)(2)(i)	Determining Compliance with Opacity and VE Standards	No	Subpart FFFFFspecifies methods and procedures for determining compliance with opacity emission and operating limits.
§ 63.7(a)(1)-(2).	Applicability and Performance Test Dates	No	Subpart FFFFF 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)-(e), (c)(7)-(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), (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 (CMS) 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)-(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.
§ 63.10(b)(2) (xi)-(xii)	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	

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Mittal Steel USA Inc. - Indiana Harbor East
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Mailing Address: 3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Part 70 Permit No.: T089-6577-00316

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit. Please check what document is being certified: ☐ Annual Compliance Certification Letter ☐ Test Result (specify) ☐ Report (specify) ☐ Notification (specify) ☐ Affidavit (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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name:	Mittal Steel USA Inc. - Indiana Harbor East
Source Address:	3210 Watling Street, East Chicago, Indiana 46312
Mailing Address:	3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Part 70 Permit No.:	T089-6577-00316

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**) working 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 **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
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

PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Mittal Steel USA Inc. - Indiana Harbor East
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Mailing Address: 3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Part 70 Permit No.: T089-6577-00316

☐ Natural Gas Only
☐ Alternate 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 QUARTERLY REPORT

Source Name: Mittal Steel USA Inc. - Indiana Harbor East
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Mailing Address: 3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Permit No.: 089-16966-00316
Facility: Slag pits at No.7 Blast Furnace
Parameter: Throughput of slag
Limit: 227,472 tons of slag processed at these facilities per 12 consecutive month period.

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			

No deviation occurred in this quarter.

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 DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Mittal Steel USA Inc. - Indiana Harbor East
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Mailing Address: 3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Part 70 Permit No.: T089-6577-00316

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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ 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.

APPENDIX A – EMISSION FACTORS

No.7 Blast Furnace and No.5 Boiler House emission points:

PM

Stack ID, associated equipment	Type of fuel combusted at the equipment	PM emissions factors (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	0.68
	Natural gas	1.9
	Combination gas (a mix of natural gas and blast furnace gas)	0.68 X Usage of BFG (MMSCF)+ 1.9 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	0.68
	Natural Gas	1.9
	Combination gas (a mix of natural gas and blast furnace gas)	0.68 X Usage of BFG (MMSCF)+ 1.9 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	PM emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	22.0	pound/hour
166, Cast house No.7 Blast Furnace west baghouse	11.22	pound/hour
169, Coke screening and transfer station baghouse	0.0002	pound/ton of coke
172, Stockhouse coke handling baghouse	0.0009	pound/ton of coke
168, Stockhouse pellet handling baghouse	0.0005	pound/ton of pellet
Slag pit operation at No.7 Blast Furnace	0.47	pound/ton of slag processed
Slag Granulator/Pelletizer	0.087	pound/ton of slag processed
171, Casthouse fugitive emissions	0.03	pound/ton of hot metal

PM_{10} (Filterable and Condensable)

Stack ID, associated equipment	Type of fuel combusted at the equipment	PM_{10} (Filterable and Condensable)emissions factors (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	4.51
	Natural gas	7.6
	Combination gas (a mix of natural gas and blast furnace gas)	4.51 X Usage of BFG (MMSCF)+ 7.6 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	4.51
	Natural Gas	7.6
	Combination gas (a mix of natural gas and blast furnace gas)	4.51 X Usage of BFG (MMSCF)+ 7.6 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	PM_{10} emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	30.1	pound/hour
166, Cast house No.7 Blast Furnace west baghouse	19.3	pound/hour
169, Coke screening and transfer station baghouse	0.0001	pound/ton of coke
172, Stockhouse coke handling baghouse	0.0008	pound/ton of coke
168, Stockhouse pellet handling baghouse	0.0005	pound/ton of pellet
Slag pit operation at No.7 Blast Furnace	0.32	pound/ton of slag processed
Slag Granulator/Pelletizer	0.087	pound/ton of slag processed
171, Casthouse fugitive emissions	0.021	pound/ton of hot metal

SO_2

Stack ID, associated equipment	Type of fuel combusted at the equipment	SO_2 emissions factors (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	14.7
	Natural gas	0.6
	Combination gas (a mix of natural gas and blast furnace gas)	14.7 X Usage of BFG (MMSCF)+ 0.6 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	14.7
	Natural Gas	0.6
	Combination gas (a mix of natural gas and blast furnace gas)	14.7 X Usage of BFG (MMSCF)+ 0.6 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	SO_2 emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	0.1774	pound/ton of hot metal
166, Cast house No.7 Blast Furnace west baghouse	0.1774	pound/ton of hot metal
Slag pit operation at No.7 Blast Furnace	0.578	pound/ton of slag processed
Slag Granulator/Pelletizer	0.1	pound/ton of slag processed
171, Casthouse fugitive emissions	0.01	pound/ton of hot metal

CO

Stack ID, associated equipment	CO emissions factors	Units
Slag pit operation at No.7 Blast Furnace	0.086	pound/ton of slag processed
Slag Granulator/Pelletizer	0.066	pound/ton of slag processed
Gas Cleaning System	0.131	pound/ton of hot metal
171, Casthouse fugitive emissions	0.012	pound/ton of hot metal

NO_x

Stack ID, associated equipment	Type of fuel combusted at the equipment	NO_x emissions factors (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	23
	Natural gas	104
	Combination gas (a mix of natural gas and blast furnace gas)	23 X Usage of BFG (MMSCF)+ 104 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	23
	Natural Gas	104
	Combination gas (a mix of natural gas and blast furnace gas)	23 X Usage of BFG (MMSCF)+ 104 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	NO_x emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	0.0248	pound/ton of hot metal
166, Cast house No.7 Blast Furnace west baghouse	0.0248	pound/ton of hot metal
Slag pit operation at No.7 Blast Furnace	0.0248	pound/ton of slag processed
Slag Granulator/Pelletizer	0.01	pound/ton of slag processed
171, Casthouse fugitive emissions	0.0012	pound/ton of hot metal

VOC

Stack ID, associated equipment	Type of fuel combusted at the equipment	VOC emissions factors (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	0
	Natural gas	5.5
	Combination gas (a mix of natural gas and blast furnace gas)	0 X Usage of BFG (MMSCF)+ 5.5 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	0
	Natural Gas	5.5
	Combination gas (a mix of natural gas and blast furnace gas)	0 X Usage of BFG (MMSCF)+ 5.5 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	VOC emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	0.00922	pound/ton of hot metal
166, Cast house No.7 Blast Furnace west baghouse	0.00922	pound/ton of hot metal
Slag pit operation at No.7 Blast Furnace	0.00234	pound/ton of slag processed
Slag Granulator/Pelletizer	0.001	pound/ton of slag processed
171, Casthouse fugitive emissions	0.0009	pound/ton of hot metal

Pb

Stack ID, associated equipment	Pb emissions factors	Units
167, Cast house No.7 Blast Furnace east baghouse	0.000126	pound/ton of hot metal
166, Cast house No.7 Blast Furnace west baghouse	0.000126	pound/ton of hot metal
Slag pit operation at No.7 Blast Furnace	0.0000036	pound/ton of slag processed
Slag Granulator/Pelletizer	0.000001	pound/ton of slag processed
171, Casthouse fugitive emissions	0.0000216	pound/ton of hot metal

Pulverized Coal Injection Plant emission points:

PM

Stack ID, associated equipment	PM emissions factors	Units
185, Coal transfer baghouse A	0.00056	pound/ton of coal
186, Coal storage baghouse C	0.00078	pound/ton of coal
187, Coal pulverizer baghouse D	0.99	pound/hour
188, Coal pulverizer baghouse E	0.99	pound/hour
189, Coal storage baghouse F	0.000818	pound/ton of coal
190, Coal storage baghouse G	0.000818	pound/ton of coal
192, Coal unloading system	0.003	pound/ton of coal

PM_{10} (Filterable and Condensable)

Stack ID, associated equipment	PM_{10} emissions factors	Units
185, Coal transfer baghouse A	0.00056	pound/ton of coal
186, Coal storage baghouse C	0.00078	pound/ton of coal
187, Coal pulverizer baghouse D	0.99	pound/hour
188, Coal pulverizer baghouse E	0.99	pound/hour
189, Coal storage baghouse F	0.000818	pound/ton of coal
190, Coal storage baghouse G	0.000818	pound/ton of coal
192, Coal unloading system	0.0015	pound/ton of coal

No.1 Lime Plant emission points:

PM

Stack ID, associated equipment	PM emissions factors	Units
47, Lime plant storage silo baghouse	5.53	pound/hour
45 and 49, No.1 and No.2 Lime Kiln baghouses (combined)	7.149	pound/hour
46, Lime plant fugitive control micro-pulse baghouse	0.007	pound/ton of lime
48, Lime plant truck loadout baghouse	0.01	pound/ton of lime

PM_{10} (Filterable and Condensable)

Stack ID, associated equipment	PM_{10} emissions factors	Units
47, Lime plant storage silo baghouse	5.53	pound/hour
45 and 49, No.1 and No.2 Lime Kiln baghouses (combined)	8.0	pound/hour
46, Lime plant fugitive control micro-pulse baghouse	0.007	pound/ton of lime
48, Lime plant truck loadout baghouse	0.0048	pound/ton of lime

CO

Stack ID, associated equipment	CO emissions factors	Units
45 and 49, No.1 and No.2 Lime Kiln baghouses	2.0	pound/ton of lime

Pb

Stack ID, associated equipment	Pb emissions factors	Units
47, Lime plant storage silo baghouse	0.00000595	pound/ton of lime
45 and 49, No.1 and No.2 Lime Kiln baghouses	0.000060568	pound/ton of lime from each kiln
48, Lime plant truck loadout baghouse	0.00000085	pound/ton of lime

No.2 BOF shop emission points:

PM

Stack ID, associated equipment	Type of fuel combusted at the equipment	PM emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	1.9
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	1.9

Stack ID, associated equipment	PM emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.057	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	0.057	pound/ton of steel
154, Ladle metallurgy facility station baghouse	0.0046	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.027	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.026	pound/ton of molten iron handled

150, Truck and ladle hopper baghouse	0.01	pound/ton of flux
151, Flux storage batch baghouse	0.007	pound/ton of flux
153, No.2 BOF Roof Monitor	0.03	pound/ton of steel
158, No.2 BOF Caster Roof Monitor	0.0035	pound/ton of slabs

PM_{10} (Filterable and Condensable)

Stack ID, associated equipment	Type of fuel combusted at the equipment	PM_{10} emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	7.6
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	7.6

Stack ID, associated equipment	PM_{10} emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.057	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	0.057	pound/ton of steel
154, Ladle metallurgy facility station baghouse	0.0064	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.028	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.0213	pound/ton of molten iron handled
150, Truck and ladle hopper baghouse	0.011	pound/ton of flux
151, Flux storage batch baghouse	0.0071	pound/ton of flux
153, No.2 BOF Roof Monitor	0.01866	pound/ton of steel
158, No.2 BOF Caster Roof Monitor	0.0015	pound/ton of slabs

SO_2

Stack ID, associated equipment	Type of fuel combusted at the equipment	SO_2 emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	0.6
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	0.6

Stack ID, associated equipment	SO_2 emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.07	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	0.07	pound/ton of steel
154, Ladle metallurgy facility station baghouse	0.025	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.014	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.0094	pound/ton of molten iron handled
153, No.2 BOF Roof Monitor	0.0004	pound/ton of steel

CO

Stack ID, associated equipment	Type of fuel combusted at the equipment	CO emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	84
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	84

Stack ID, associated equipment	CO emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	13.55	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	13.55	pound/ton of steel
154, Ladle metallurgy facility station baghouse	0.042	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.139	pound/ton of steel
Gas Cleaning System	0.022	pound/ton of steel
153, No.2 BOF Roof Monitor	0.0042	pound/ton of steel

NO_x

Stack ID, associated equipment	Type of fuel combusted at the equipment	NO_x emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	100
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	100

Stack ID, associated equipment	NO_x emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.08	pound/ton of steel

148, No.20 Basic Oxygen Furnace scrubber	0.08	pound/ton of steel
154, Ladle metallurgy facility station baghouse	0.003	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.02	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.0024	pound/ton of molten iron handled
153, No.2 BOF Roof Monitor	0.0006	pound/ton of steel

VOC

Stack ID, associated equipment	Type of fuel combusted at the equipment	VOC emissions factors (pound/MMSCF of fuel)
147, No.10 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	5.5
148, No.20 Basic Oxygen Furnace, Flare stack ignitors	Natural gas	5.5

Stack ID, associated equipment	VOC emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.001	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	0.001	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.005	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.001	pound/ton of molten iron handled
153, No.2 BOF Roof Monitor	0.00015	pound/ton of steel
158, No.2 BOF Caster Roof Monitor	0.002	pound/ton of slabs

Pb

Stack ID, associated equipment	Pb emissions factors	Units
147, No.10 Basic Oxygen Furnace scrubber	0.00006	pound/ton of steel
148, No.20 Basic Oxygen Furnace scrubber	0.00006	pound/ton of steel
154, Ladle metallurgy facility station baghouse	4 E –06	pound/ton of steel
149, Secondary ventilation system for No.2 BOF shop scrubber	0.000165	pound/ton of steel
152, Charge Aisle and relading desulfurization (hot metal station) baghouse	0.000001881	pound/ton of molten iron handled
153, No.2 BOF Roof Monitor	0.000023	pound/ton of steel

No.4 BOF shop emission points:

PM

Stack ID, associated equipment	PM emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.171	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	22.3	pound/hour
26, Relading and desulfurization (hot metal station) baghouse (North)	0.00512	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	0.00512	pound/ton of hot metal
32, RHOB condensers stack	0.0004	pound/ton of steel
33, RHOB material handling stack	0.002	pound/ton of steel
28, Furnace additive bin loading	0.001	pound/ton of alloys
31, Torch cut	0.0035	pound/ton of steel
35, Furnace additive hopper house	0.001	pound/ton of alloys
29, No.4 BOF Roof Monitor	0.03	pound/ton of steel

PM_{10} (Filterable and Condensable)

Stack ID, associated equipment	PM_{10} emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.177	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	23.74	pound/hour
26, Relading and desulfurization (hot metal station) baghouse (North)	0.017	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	0.017	pound/ton of hot metal
32, RHOB condensers stack	0.0002	pound/ton of steel
33, RHOB material handling stack	0.002	pound/ton of steel
28, Furnace additive bin loading	0.001	pound/ton of alloys
31, Torch cut	0.002025	pound/ton of steel
35, Furnace additive hopper house	0.001	pound/ton of alloys
29, No.4 BOF Roof Monitor	0.0183	pound/ton of steel

SO_2

Stack ID, associated equipment	SO_2 emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.001	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	0.001	pound/ton of steel
26, Relading and desulfurization (hot metal station) baghouse (North)	0.0094	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	0.0094	pound/ton of hot metal
29, No.4 BOF Roof Monitor	0.00003	pound/ton of steel

CO

Stack ID, associated equipment	CO emissions factors	Units
38, No.4 BOF shop off gas scrubber	8.031	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	0.139	pound/ton of steel
32, RHOB condensers stack	0.0214	pound/ton of steel
Gas Cleaning System 4 BOF	0.047	pound/ton of steel
Gas Cleaning System 4BOF RHOB	0.0925	pound/ton of steel
29, No.4 BOF Roof Monitor	0.0042	pound/ton of steel

NO_x

Stack ID, associated equipment	NO_x emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.08	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	0.02	pound/ton of steel
26, Relading and desulfurization (hot metal station) baghouse (North)	0.0024	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	0.0024	pound/ton of hot metal
29, No.4 BOF Roof Monitor	0.0006	pound/ton of steel

VOC

Stack ID, associated equipment	VOC emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.001	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	0.005	pound/ton of steel
26, Relading and desulfurization (hot metal station) baghouse (North)	0.001	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	0.001	pound/ton of hot metal
31, Torch cut	0.002	pound/ton of steel
29, No.4 BOF Roof Monitor	0.00015	pound/ton of steel

Pb

Stack ID, associated equipment	Pb emissions factors	Units
38, No.4 BOF shop off gas scrubber	0.00017	pound/ton of steel
37, Secondary ventilation system for No.4 BOF shop scrubber	0.00017	pound/hour
26, Relading and desulfurization (hot metal station) baghouse (North)	9.4 E -07	pound/ton of hot metal
27, Relading and desulfurization (hot metal station) baghouse (South)	9.4 E -07	pound/ton of hot metal
32, RHOB condensers stack	0.000032	pound/ton of steel
33, RHOB material handling stack	6 E –07	pound/ton of steel
29, No.4 BOF Roof Monitor	0.000038	pound/ton of steel

Indiana Department of Environmental Management
Office of Air Quality

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Addendum to the
Technical Support Document for a Part 70 Operating Permit

Source Name:	Mittal Steel USA Inc. - Indiana Harbor East
Source Location:	3210 Watling Street, East Chicago, Indiana
County:	Lake
SIC Code:	3312
Operation Permit No.:	T089-6577- 00316
Permit Reviewer:	Teresa Freeman

On February 25, 2004, the Office of Air Quality (OAQ) had a notice published in The Post Tribune in Merrillville, Indiana and The Times in Munster, Indiana, stating that Ispat Inland, Inc. had applied for a Part 70 Operating Permit relating to the operation of a stationary Integrated Iron and 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.

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:

On December 31, 2003, IDEM adopted a revision to 326 IAC 1-4-1 redesignating Lake County as attainment for PM10.

Additionally, on April 15, 2004, the United States Environmental Protection Agency (U.S. EPA) named 23 Indiana counties and one partial county nonattainment for the new 8-hour ozone standard. The designations became effective on June 15, 2004. Lake County has been designated as nonattaiment for the 8-hour ozone standard. Lake County has also been designated as nonattainment in Indiana for the 1-hour ozone standard.

Lake County has been designated as non-attainment for PM2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM2.5 major NSR regulations, states should assume that a major stationary source's PM10 emissions represent PM2.5 emissions. IDEM will use the PM-10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS.

Therefore, Condition A.1 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)]

Source Location Status:	Nonattainment for ~~PM_{10} *,~~ SO_2, **1-hour ozone standard, 8-hour ozone standard and PM2.5** Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD **and** Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories under PSD and Emission Offset Rules

Although the TSD itself will not be revised as it is a historical document and the TSD was correct at the time of public notice, the following is being provided to show how the county attainment status has been affected as a result of the 8-hour ozone, 1-hour ozone and PM2.5 standard designations.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	attainment
PM2.5	nonattainment
SO_2	nonattainment
NO_2	attainment
1-hour Ozone	nonattainment
8-hour Ozone	nonattainment

(a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are precursors for the formation of 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 evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment 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 nonattainment for the 8-hour ozone 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 SO2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(c) Lake County has been classified as nonattainment for PM2.5 in 70 FR 943 dated has directed states 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.

(d) Lake County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(e) 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 2:

The mailing address for IDEM has changed and has been changed throughout the permit as follows:

100 North Senate Avenue~~, P.O. Box 6015~~

Indianapolis, Indiana 4620**4-2251** ~~6-6015~~

Change 3:

Condition B.2 has been revised to clarify the permit and condition terms.

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 15-13-6(a)]~~**[13-15-3-6(a)]**

(a) This permit, **T089-6577-00316**, 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.

Change 4:

A statement was added to condition B.8 Certification in order to clarify that the certification form may cover more than one document that is submitted. (We have received requests from various source categories requesting clarification on this.)

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. **One (1) certification may cover multiple forms in one (1) submittal.**

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

Change 5:

Condition B.13 has been revised to clarify the permit and condition terms.

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

(a) All terms and conditions of ~~previous~~ permits **established prior to T089-6577-00316 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.**

~~by this permit.~~

(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.

Change 6:

"326 IAC 2-7-3" and "326 IAC 2-7-8(e) was added to the authority line for B.16 Permit Renewal. Upon further review, IDEM has decided to include the following updates to (B.16 (b) to further address and clarify the permit renewal.

B.16 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, and 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 "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

(b) ~~Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

~~(1)~~ A timely renewal application is one that is:

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

~~(B)~~ **(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.

~~(2) If IDEM, OAQ, upon receiving a timely and complete 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.~~

(c) ~~Right to Operate After Application for Renewal [326 IAC 2-7-3]~~
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.

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~
~~If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.~~

Change 7:

IDEM has clarified the Section B Operational Flexibility condition as follows:

B.19 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) 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.

Change 8:

Condition B.20 has been updated to include a new "b" to concerning modifications to a major source. This is also a change due to the NSR reform.

B.20 Source Modification Requirement [326 IAC 2-7-10.5] **[326 IAC 2-2-2][326 IAC 2-3-2]**

(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.

Change 9:

The section's name that collects operating fees has changed; this has been updated in B.23 Annual Fee Payment. The current name is the Billing, Licensing, and Training Section.

B.23 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. 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, ~~I/M &~~ Billing**, Licensing, and Training** Section), to determine the appropriate permit fee.

Change 10:

Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the condition reflecting this rule will be incorporated into your permit as follows:

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

~~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.~~

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 11:

Condition B.25 has been created to clarify the permit and condition terms.

B.25 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:

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

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

Change 12:

IDEM has determined that Condition C.6 (Operation of Equipment is a duplicate requirement. This condition is included in the D sections and therefore it is not necessary to list in Section C. Subsequent conditions have been renumbered.

~~C.6 Operation of Equipment [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment are in operation.~~

Change 13:

IDEM OAQ has decided to add a condition into Section C of the Part 70 Permit for the requirements regarding a Continuous Compliance Plan (CCP), subsequently all remaining Section C conditions have been renumbered. In addition Conditions D.1.20, D.2.20, D.3.13, D.4.5, D.5.14, D.6.11, D.7.7, D.8.18, D.13.9 and D.14.5 have been removed and all subsequent conditions have been renumbered. The following changes have been made:

C.10 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8)]

(a) Pursuant to 326 IAC 326 IAC 6.8-8-1 (formerly 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 6.8-8-5 (formerly 326 IAC 6-1-10.1 (p)) through 326 IAC 6.8-8-7 (formerly 326 IAC 6-1-10.1 (r)) or applicable procedures in the CCP.

(b) Pursuant to 326 IAC 6.8-8-8 (formerly 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 6.8-8 (formerly 326 IAC 6-1-10.1), failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8 (formerly 326 IAC 6-1-10.1).

~~D.1.12 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(p)(3)(C), the plans for blast furnaces shall include the following:~~

~~(A) Describe procedures, including frequency, for inspection of the following elements of a capture system:~~
~~(i) Pressure sensors.~~
~~(ii) Dampers.~~
~~(iii) Damper switches.~~
~~(iv) Hood and ductwork for the presence of holes.~~
~~Maintain records of the maintenance and any repairs made.~~

~~(B) Describe procedures used to minimize dirt and debris accumulation on the facility floor.~~

~~(C) Describe any fume suppression system, including the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. Fume suppression system means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.~~

~~(D) Describe the record keeping for the following elements of the iron production cycle:~~
~~(i) Time of hole drilling.~~
~~(ii) Time of tapping.~~
~~(iii) Time of hole plugging.~~

~~(E) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:~~
~~(i) Tuyres.~~
~~(ii) Bleeder valves.~~
~~(iii) Large and small bells.~~
~~(iv) Uptakes and downcomers (to minimize backdrafting).~~
~~(v) Standby devices.~~

~~(F) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, such as dust catchers and scrubbing equipment to assure operation within design parameters.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~

~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(D) Contents of the operator's training program and the frequency with which the training is held.~~

~~(E) A list of spare parts available at the facility.~~

~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~

~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(3), the plans for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(A) Operating parameters, such as the following:~~

~~(i) Gas flow rate.~~

~~(ii) Inlet and outlet temperatures of gas to and from scrubber.~~

~~(iii) Liquid flow rate to scrubber.~~

~~(iv) Pressure drop across scrubber.~~

~~(v) pH of liquid to scrubber.~~

~~(vi) Fan and pump currents.~~

~~A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.~~

~~(B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspection of the following:~~

~~(AA) Scrubbing liquid flow rates to scrubber.~~

~~(BB) Pressure drop across scrubber.~~

~~(CC) Fan and pump amperages for values outside the operating range.~~

~~Corrective actions taken shall be recorded.~~

~~(ii) Monthly inspection of the following:~~

~~(AA) Seals for abrasion.~~

~~(BB) Corrosion and leaks.~~

~~(CC) Fans for abrasion, corrosion, and solids build-up.~~

~~(DD) Pipes for abrasion, corrosion, and plugging.~~

~~(EE) Throat wear in the venturi scrubber.~~

~~(FF) Sensors, alarm systems, and bypass devices for proper operation.~~

~~(GG) Entrainment separator for blockage.~~

~~(HH) Spray nozzles for plugging or excessive wear.~~

~~D.2.20 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons~~

~~per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(p)(3)(C), the plans for blast furnaces shall include the following:~~

~~(A) Describe procedures, including frequency, for inspection of the following elements of a capture system:~~
~~(i) Pressure sensors.~~
~~(ii) Dampers.~~
~~(iii) Damper switches.~~
~~(iv) Hood and ductwork for the presence of holes.~~
~~Maintain records of the maintenance and any repairs made.~~

~~(B) Describe procedures used to minimize dirt and debris accumulation on the facility floor.~~

~~(C) Describe any fume suppression system, including the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. Fume suppression system means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.~~

~~(D) Describe the record keeping for the following elements of the iron production cycle:~~
~~(i) Time of hole drilling.~~
~~(ii) Time of tapping.~~
~~(iii) Time of hole plugging.~~

~~(E) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:~~
~~(i) Tuyres.~~
~~(ii) Bleeder valves.~~
~~(iii) Large and small bells.~~
~~(iv) Uptakes and downcomers (to minimize backdrafting).~~
~~(v) Standby devices.~~

~~(F) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, such as dust catchers and scrubbing equipment to assure operation within design parameters.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~

~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(D) Contents of the operator's training program and the frequency with which the training is held.~~

~~(E) A list of spare parts available at the facility.~~
~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~
~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~
~~(A) Operating parameters, such as the following:~~
~~(i) Pressure drop across the baghouse.~~
~~(ii) Gas flow rate at baghouse inlet.~~
~~(iii) Gas temperatures at inlet.~~
~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~
~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~
~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~
~~(i) Daily inspections shall include the following:~~
~~(AA) Pressure drop.~~
~~(BB) Fan amperage.~~
~~(CC) Cleaning cycle.~~
~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~
~~(EE) Dust discharge equipment for proper operation.~~
~~(FF) General check for abnormal audible and visual conditions.~~
~~(ii) Weekly inspections of the following:~~
~~(AA) Moving parts on discharge system.~~
~~(BB) Bypass and isolation damper operation.~~
~~(CC) Bag tension.~~
~~(DD) Compressed air lines, oilers, and filters.~~
~~(EE) Manometer lines.~~
~~(FF) Temperature indicating equipment.~~
~~(GG) Bag cleaning sequence.~~
~~(HH) Drive components on fans.~~
~~(iii) Monthly inspections of the following:~~
~~(AA) Bag seating condition.~~
~~(BB) Moving parts on shaker baghouses.~~
~~(CC) Fan corrosion and blade wear.~~
~~(DD) Hoses and clamps.~~
~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~
~~(iv) Quarterly inspections of the following:~~
~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~D.3.13 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Sinter production shall comply with the following:~~
~~(A) Describe routine startup and shutdown procedures and other work practices which are followed to reduce emissions and equipment malfunctions.~~
~~(B) Describe procedures for inspection of equipment to identify areas which may affect particulate emissions, including the following:~~
~~(i) Points of wear.~~
~~(ii) Distorted grate bars.~~
~~(iii) Leaking machine seals.~~
~~(iv) Holes in ducts.~~
~~(v) Holes in flapper valves.~~
~~(C) Describe procedures for monitoring mechanical and electrical inspection records.~~
~~(D) Describe procedures used to minimize dirt and debris accumulation on the facility floor.~~
~~(E) Describe procedures for monitoring burden parameters, including base to acid ratio and hydrocarbon content.~~
~~(F) Describe the routine for plant operation during equipment failure, such as screening station failure.~~
~~(G) At least monthly, inspect the operational status of the following elements of the capture system:~~
~~(i) Pressure sensors.~~
~~(ii) Dampers.~~
~~(iii) Damper switches.~~
~~(iv) Hood and ductwork for the presence of holes.~~
~~(v) Ductwork for accumulation of dust.~~
~~(vi) Fans for erosion.~~
~~Maintain records of the inspections and any repairs.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~
~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major~~

~~modifications have been made.~~

~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(D) Contents of the operator's training program and the frequency with which the training is held.~~

~~(E) A list of spare parts available at the facility.~~

~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~

~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(A) Operating parameters, such as the following:~~

~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~

~~(iii) Gas temperatures at inlet.~~

~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~

~~(AA) Pressure drop.~~

~~(BB) Fan amperage.~~

~~(CC) Cleaning cycle.~~

~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~

~~(EE) Dust discharge equipment for proper operation.~~

~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~

~~(AA) Moving parts on discharge system.~~

~~(BB) Bypass and isolation damper operation.~~

~~(CC) Bag tension.~~

~~(DD) Compressed air lines, oilers, and filters.~~

~~(EE) Manometer lines.~~

~~(FF) Temperature indicating equipment.~~

~~(GG) Bag cleaning sequence.~~

~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~

~~(AA) Bag seating condition.~~

~~(BB) Moving parts on shaker baghouses.~~

~~(CC) Fan corrosion and blade wear.~~

~~(DD) Hoses and clamps.~~

~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~
~~(iv) Quarterly inspections of the following:~~
~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~
~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~D.4.5 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~
~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~
~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~
~~(D) Contents of the operator's training program and the frequency with which the training is held.~~
~~(E) A list of spare parts available at the facility.~~
~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~
~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(2) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~
~~(A) Operating parameters, such as the following:~~
~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~
~~(iii) Gas temperatures at inlet.~~
~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~
~~(AA) Pressure drop.~~
~~(BB) Fan amperage.~~
~~(CC) Cleaning cycle.~~
~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~
~~(EE) Dust discharge equipment for proper operation.~~
~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~
~~(AA) Moving parts on discharge system.~~
~~(BB) Bypass and isolation damper operation.~~
~~(CC) Bag tension.~~
~~(DD) Compressed air lines, oilers, and filters.~~
~~(EE) Manometer lines.~~
~~(FF) Temperature indicating equipment.~~
~~(GG) Bag cleaning sequence.~~
~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~
~~(AA) Bag seating condition.~~
~~(BB) Moving parts on shaker baghouses.~~
~~(CC) Fan corrosion and blade wear.~~
~~(DD) Hoses and clamps.~~
~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~
~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~D.5.14 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents~~

~~and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(A) Pursuant to 326 IAC 6-1-10.1(p)(3)(A), the plans for the Basic oxygen process (BOP, BOF, QBOP) shall include the following:~~

~~(1) Describe the capture and control devices used to control particulate emissions from each phase of the steel production cycle, including the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.~~

~~(2) Describe any fume suppression system, including the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.~~

~~(3) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.~~

~~(4) Describe the off-gas system leak detection and repair record keeping practices.~~

~~(5) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.~~

~~(6) Describe practices that reduce PM_{10} and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping slag.~~

~~(7) At least monthly, inspect the operational status of the following elements of the capture system:~~
~~(i) Pressure sensors.~~
~~(ii) Dampers.~~
~~(iii) Damper switches.~~
~~(iv) The hood and ductwork for the presence of holes.~~
~~(v) Ductwork for accumulation of dust.~~
~~(vi) Fans for erosion.~~
~~Maintain records of the inspections and any repairs.~~

~~(B) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(1) Startup, shutdown, and emergency shutdown procedures.~~

~~(2) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(3) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(4) Contents of the operator's training program and the frequency with which the training is held.~~

~~(5) A list of spare parts available at the facility.~~

~~(6) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety~~

~~interlock system.~~

~~(7) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(C) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(1) Operating parameters, such as the following:~~

~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~

~~(iii) Gas temperatures at inlet.~~

~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(2) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(3) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~

~~(AA) Pressure drop.~~

~~(BB) Fan amperage.~~

~~(CC) Cleaning cycle.~~

~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~

~~(EE) Dust discharge equipment for proper operation.~~

~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~

~~(AA) Moving parts on discharge system.~~

~~(BB) Bypass and isolation damper operation.~~

~~(CC) Bag tension.~~

~~(DD) Compressed air lines, oilers, and filters.~~

~~(EE) Manometer lines.~~

~~(FF) Temperature indicating equipment.~~

~~(GG) Bag cleaning sequence.~~

~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~

~~(AA) Bag seating condition.~~

~~(BB) Moving parts on shaker baghouses.~~

~~(CC) Fan corrosion and blade wear.~~

~~(DD) Hoses and clamps.~~

~~(EE) Bags for leaks and holes.~~

~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~

~~(AA) Bags.~~

~~(BB) Ducts for dust build-up.~~

~~(CC) Damper valves for proper setting.~~

~~(DD) Door gaskets.~~

~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~

~~(AA) Welds and bolts.~~

~~(BB) Hoppers for wear.~~

~~(CC) Cleaning parts for wear.~~

~~(D) Pursuant to 326 IAC 6-1-10.1(r)(3), the plans for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(1) Operating parameters, such as the following:~~

~~(i) Gas flow rate.~~

~~(ii) Inlet and outlet temperatures of gas to and from scrubber.~~

~~(iii) Liquid flow rate to scrubber.~~

~~(iv) Pressure drop across scrubber.~~

~~(v) pH of liquid to scrubber.~~

~~(vi) Fan and pump currents.~~

~~A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.~~

~~(2) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspection of the following:~~

~~(AA) Scrubbing liquid flow rates to scrubber.~~

~~(BB) Pressure drop across scrubber.~~

~~(CC) Fan and pump amperages for values outside the operating range.~~

~~Corrective actions taken shall be recorded.~~

~~(ii) Monthly inspection of the following:~~

~~(AA) Seals for abrasion.~~

~~(BB) Corrosion and leaks.~~

~~(CC) Fans for abrasion, corrosion, and solids build-up.~~

~~(DD) Pipes for abrasion, corrosion, and plugging.~~

~~(EE) Throat wear in the venturi scrubber.~~

~~(FF) Sensors, alarm systems, and bypass devices for proper operation.~~

~~(GG) Entrainment separator for blockage.~~

~~(HH) Spray nozzles for plugging or excessive wear.~~

~~D.6.11 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(p)(3)(A), the plans for the Basic oxygen process (BOP, BOF, QBOP) shall include the following:~~

~~(A) Describe the capture and control devices used to control particulate~~

~~emissions from each phase of the steel production cycle, including the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.~~

~~(B) Describe any fume suppression system, including the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.~~

~~(C) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.~~

~~(D) Describe the off-gas system leak detection and repair record keeping practices.~~

~~(E) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.~~

~~(F) Describe practices that reduce PM_{10} and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping slag.~~

~~(G) At least monthly, inspect the operational status of the following elements of the capture system:~~

~~(i) Pressure sensors.~~

~~(ii) Dampers.~~

~~(iii) Damper switches.~~

~~(iv) The hood and ductwork for the presence of holes.~~

~~(v) Ductwork for accumulation of dust.~~

~~(vi) Fans for erosion.~~

~~Maintain records of the inspections and any repairs.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~

~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(D) Contents of the operator's training program and the frequency with which the training is held.~~

~~(E) A list of spare parts available at the facility.~~

~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~

~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(A) Operating parameters, such as the following:~~

~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~
~~(iii) Gas temperatures at inlet.~~
~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~
~~(AA) Pressure drop.~~
~~(BB) Fan amperage.~~
~~(CC) Cleaning cycle.~~
~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~
~~(EE) Dust discharge equipment for proper operation.~~
~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~
~~(AA) Moving parts on discharge system.~~
~~(BB) Bypass and isolation damper operation.~~
~~(CC) Bag tension.~~
~~(DD) Compressed air lines, oilers, and filters.~~
~~(EE) Manometer lines.~~
~~(FF) Temperature indicating equipment.~~
~~(GG) Bag cleaning sequence.~~
~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~
~~(AA) Bag seating condition.~~
~~(BB) Moving parts on shaker baghouses.~~
~~(CC) Fan corrosion and blade wear.~~
~~(DD) Hoses and clamps.~~
~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~
~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~(4) Pursuant to 326 IAC 6-1-10.1(r)(3), the plans for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(A) Operating parameters, such as the following:~~
~~(i) Gas flow rate.~~
~~(ii) Inlet and outlet temperatures of gas to and from scrubber.~~
~~(iii) Liquid flow rate to scrubber.~~

~~(iv) Pressure drop across scrubber.~~
~~(v) pH of liquid to scrubber.~~
~~(vi) Fan and pump currents.~~
~~A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.~~

~~(B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspection of the following:~~
~~(AA) Scrubbing liquid flow rates to scrubber.~~
~~(BB) Pressure drop across scrubber.~~
~~(CC) Fan and pump amperages for values outside the operating range.~~
~~Corrective actions taken shall be recorded.~~

~~(ii) Monthly inspection of the following:~~
~~(AA) Seals for abrasion.~~
~~(BB) Corrosion and leaks.~~
~~(CC) Fans for abrasion, corrosion, and solids build-up.~~
~~(DD) Pipes for abrasion, corrosion, and plugging.~~
~~(EE) Throat wear in the venturi scrubber.~~
~~(FF) Sensors, alarm systems, and bypass devices for proper operation.~~
~~(GG) Entrainment separator for blockage.~~
~~(HH) Spray nozzles for plugging or excessive wear.~~

~~D.7.7 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(p)(1), the plans for the Lime Plant: shall include the following:~~

~~Monitor opacity at the kilns and control system vents during normal operation of the kiln with a continuous emission monitor or through self-monitoring of opacity. 40 CFR 60, Appendix A, Method 9* shall be used to determine opacity if the facility is controlled by a positive pressure fabric filter.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~
~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~
~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~
~~(D) Contents of the operator's training program and the frequency with which the training is held.~~
~~(E) A list of spare parts available at the facility.~~
~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~
~~(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~
~~(A) Operating parameters, such as the following:~~
~~(i) Pressure drop across the baghouse.~~
~~(ii) Gas flow rate at baghouse inlet.~~
~~(iii) Gas temperatures at inlet.~~
~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~
~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~
~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~
~~(i) Daily inspections shall include the following:~~
~~(AA) Pressure drop.~~
~~(BB) Fan amperage.~~
~~(CC) Cleaning cycle.~~
~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~
~~(EE) Dust discharge equipment for proper operation.~~
~~(FF) General check for abnormal audible and visual conditions.~~
~~(ii) Weekly inspections of the following:~~
~~(AA) Moving parts on discharge system.~~
~~(BB) Bypass and isolation damper operation.~~
~~(CC) Bag tension.~~
~~(DD) Compressed air lines, oilers, and filters.~~
~~(EE) Manometer lines.~~
~~(FF) Temperature indicating equipment.~~
~~(GG) Bag cleaning sequence.~~
~~(HH) Drive components on fans.~~
~~(iii) Monthly inspections of the following:~~
~~(AA) Bag seating condition.~~

~~(BB) Moving parts on shaker baghouses.~~
~~(CC) Fan corrosion and blade wear.~~
~~(DD) Hoses and clamps.~~
~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~
~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~D.8.18 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:~~

~~(1) Pursuant to 326 IAC 6-1-10.1(p)(3)(B) Electric arc furnace, including the following:~~

~~(A) List the furnace operating sequences to be followed in case of multivessel operation. Describe the capture and control devices used to control particulate emissions in each phase of the steel production cycle, including exhaust rate and dampers, blast gates, instrumentation operation, and control. Include a drawing that shows:~~

~~(i) the location of the furnace within the facility in relation to capture hoods and control devices, roof vents, and other building openings; and~~

~~(ii) the location of other processes within the facility that have potential to generate emissions, such as casting and ladle repair.~~

~~(B) Describe the procedure for recording the following:~~

~~(i) Time of furnace charging, furnace melting, and furnace refining.~~
~~(ii) Tapping start and stop times.~~
~~(iii) Charge weight for each heat.~~
~~(iv) Tap weight for each heat.~~

~~(C) At least monthly, inspect the operational status of the following elements of the capture system:~~

~~(i) Pressure sensors.~~
~~(ii) Dampers.~~
~~(iii) Damper switches.~~
~~(iv) Hood and ductwork for the presence of holes.~~
~~(v) Ductwork for accumulation of dust.~~
~~(vi) Fans for erosion.~~

~~Maintain records of the inspections and any repairs.~~

~~(D) Describe procedures used to minimize dirt and debris accumulation on the~~

~~facility floor.~~

~~(E) Once per heat, either check and record the control system fan motor ampere and damper position or monitor flow rate through each separately ducted hood and/or duct used to capture emissions from the electric arc furnace operation.~~

~~(F) Take visible emission readings of the direct shell evacuation system and the roof monitor at least once a day. The readings shall be taken during one (1) single steel production cycle and will be concurrent with the observations in subsection (k)(5)(H)(iii). The opacity observations shall be taken according to 40 CFR 60, Appendix A, Method 9* and consist of at least one (1) six (6) minute observation each during charging and tapping and three (3) six (6) minute observations during melting and refining.~~

~~(G) Report to the department on a quarterly basis control system fan motor amperage values that exceed fifteen percent (15%) of the value or operation at volumetric flow rates lower than those established during the performance test in subsection (k)(5)(H)(i). Operation above these values may be considered as unacceptable operation of the electric arc furnace equipment and the emissions capture and control system by the commissioner. Unless alternative values are established according to the procedures prescribed in subsection (l).~~

~~(H) Keep a record of any process and control equipment upsets, malfunctions, or activities within the electric arc furnace facility that may have resulted in excessive emissions. The records shall consist of the nature of event, time, and duration.~~

~~(2) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(A) Startup, shutdown, and emergency shutdown procedures.~~

~~(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(C) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(D) Contents of the operator's training program and the frequency with which the training is held.~~

~~(E) A list of spare parts available at the facility.~~

~~(F) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~

~~(H) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(3) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(A) Operating parameters, such as the following:~~

~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~

~~(iii) Gas temperatures at inlet.~~

~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~

~~(AA) Pressure drop.~~
~~(BB) Fan amperage.~~
~~(CC) Cleaning cycle.~~
~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~
~~(EE) Dust discharge equipment for proper operation.~~
~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~

~~(AA) Moving parts on discharge system.~~
~~(BB) Bypass and isolation damper operation.~~
~~(CC) Bag tension.~~
~~(DD) Compressed air lines, oilers, and filters.~~
~~(EE) Manometer lines.~~
~~(FF) Temperature indicating equipment.~~
~~(GG) Bag cleaning sequence.~~
~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~

~~(AA) Bag seating condition.~~
~~(BB) Moving parts on shaker baghouses.~~
~~(CC) Fan corrosion and blade wear.~~
~~(DD) Hoses and clamps.~~
~~(EE) Bags for leaks and holes.~~
~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~

~~(AA) Bags.~~
~~(BB) Ducts for dust build-up.~~
~~(CC) Damper valves for proper setting.~~
~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~

~~(v) Annual inspection of the following:~~

~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

~~D.13.9 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(p)(4), the plans for the Fuel combustion boilers shall include the following:~~

~~(1) The requirements of this subdivision shall not relax the fuel monitoring and reporting requirements of 326 IAC 7-1.1-1 for the sources this section applies to.~~

~~(2) Affected sources shall maintain records of the following information:~~

~~(i) Operational status of each facility for each day.~~
~~(ii) The daily measurements for each facility of the type of fuel used, amount of each type of fuel used, and heat content of each type of fuel used.~~
~~(iii) The TSP or PM_{10} emission factors for each type of fuel to be used as~~

~~estimated by the AP-42 or stack test method.~~

~~(iv) The method used to monitor the fuel amount and heat content in addition to the frequency.~~

~~(v) The control efficiency of the particulate control device and the method of determination.~~

~~(vi) Average daily PM_{10} emissions (or TSP if applicable) for each facility, expressed in pounds per million British thermal units.~~

~~(3) The following guidance may be used to estimate emissions:~~

~~(i) For heat content, AP-42, Volume 1, Appendix A, Table A-3, "Typical Parameters of Various Fuels" Fifth Edition, January 1995, Supplements A through G, December 2000.~~

~~(ii) For emission factors (TSP or PM_{10}), EPA 450/4-90-003, "AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants".~~

~~(iii) For control equipment efficiency, manufacturer's warranty or as determined by source.~~

~~(iv) Sources may substitute other site-specific values for the values as indicated if they can be shown to be acceptable to the department.~~

~~D.14.5 Continuous Compliance Plan [326 IAC 6-1-10.1]~~

~~Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP).~~

~~(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.~~

~~(b) Pursuant to 326 IAC 6-1-10.1(p)(3)(F), the plans for a facility Waste disposal and recycling practices of iron and steel scrap and other metallic scrap shall include the following:~~

~~(1) Provide a description of the routine activities involving disposal and reclamation of iron and steel. The visible emissions from such activities shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.~~

~~(2) Maintenance of process vessels, for example, pugh ladles, shall be performed in enclosed structures. The visible emissions from such structures shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.~~

~~(3) Emissions from all steel scrap burning or cutting and oxygen lancing operations shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.~~

~~(c) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:~~

~~(1) Startup, shutdown, and emergency shutdown procedures.~~

~~(2) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.~~

~~(3) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors,~~

~~alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.~~

~~(4) Contents of the operator's training program and the frequency with which the training is held.~~

~~(5) A list of spare parts available at the facility.~~

~~(6) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.~~

~~(7) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).~~

~~(d) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:~~

~~(1) Operating parameters, such as the following:~~

~~(i) Pressure drop across the baghouse.~~

~~(ii) Gas flow rate at baghouse inlet.~~

~~(iii) Gas temperatures at inlet.~~

~~A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.~~

~~(2) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.~~

~~(3) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:~~

~~(i) Daily inspections shall include the following:~~

~~(AA) Pressure drop.~~

~~(BB) Fan amperage.~~

~~(CC) Cleaning cycle.~~

~~(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.~~

~~(EE) Dust discharge equipment for proper operation.~~

~~(FF) General check for abnormal audible and visual conditions.~~

~~(ii) Weekly inspections of the following:~~

~~(AA) Moving parts on discharge system.~~

~~(BB) Bypass and isolation damper operation.~~

~~(CC) Bag tension.~~

~~(DD) Compressed air lines, oilers, and filters.~~

~~(EE) Manometer lines.~~

~~(FF) Temperature indicating equipment.~~

~~(GG) Bag cleaning sequence.~~

~~(HH) Drive components on fans.~~

~~(iii) Monthly inspections of the following:~~

~~(AA) Bag seating condition.~~

~~(BB) Moving parts on shaker baghouses.~~

~~(CC) Fan corrosion and blade wear.~~

~~(DD) Hoses and clamps.~~

~~(EE) Bags for leaks and holes.~~

~~(FF) Bag housing for corrosion.~~

~~(iv) Quarterly inspections of the following:~~

~~(AA) Bags.~~

~~(BB) Ducts for dust build-up.~~

~~(CC) Damper valves for proper setting.~~

~~(DD) Door gaskets.~~
~~(EE) Baffle plate for wear.~~
~~(v) Annual inspection of the following:~~
~~(AA) Welds and bolts.~~
~~(BB) Hoppers for wear.~~
~~(CC) Cleaning parts for wear.~~

As a result of these changes, the following changes have also been made to Conditions D.1.11 (wasD.1.20), D.2.24 (was D.2.28), D.3.15 (was D.3.21), D.4.8 (was D.4.10) D.5.18 (was D.5.24), D.6.14 (was D.6.21), D.7.11 (was D.7.14), D.8.20 (was D.8.23) and D.14.8 (was D.14.10):

D.1.11 Record Keeping Requirements

~~(b) To document compliance with D.1.12, the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP.~~

D.2.24 Record Keeping Requirements

~~(d) To document compliance with D.2.20, the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP.~~

D.3.15 Record Keeping Requirements

~~(b) To document compliance with D.3.13, the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP.~~

D.4.8 Record Keeping Requirements

~~(a) To document compliance with D.4.5, the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP) and keep records of the inspections and monitoring in accordance with the Permittee's CCP.~~

D.5.18 Record Keeping Requirements

~~(a) To document compliance with D.5.14 the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP.~~

D.6.14 Record Keeping Requirements

~~(a) To document compliance with D.6.11 the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and keep records of the inspections and monitoring in accordance with the Permittee's CCP.~~

D.7.11 Record Keeping Requirements

~~(a) To document compliance with D.7.7 the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and keep records of the inspections and monitoring in accordance with the Permittee's CCP.~~

D.8.20 Record Keeping Requirements

~~(a) To document compliance with D.8.18, the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP~~

D.14.8 Record Keeping Requirements

~~(a) To document compliance with D.14.5, the Permittee shall maintain at the source a copy of the Continuous Compliance Plan (CCP) and perform the inspections, monitoring and record keeping requirements in accordance with the Permittee's CCP.~~

Change 14:

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 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.12 ~~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 voltage or current 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 five percent (2%) of full scale reading.~~

~~(c) 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.~~

~~(d) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.~~

~~(e)~~ **(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.

In addition the following changes have been made to Conditions D.1.15 (now D.1.6), D.2.22 (now D.2.18), D.3.15 (now D.3.10), D.4.7 (now D.4.6), D.5.16 (now D.5.12), D.5.19 (now D.5.14), D.6.13 (now D.6.11), D.6.16 (now D.6.13), D.7.9 (now D.7.8), D.8.20 (now D.8.18) and D.14.7:

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.

Change 15:

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 Condition C.15 (was C.17) has been revised as follows:

C.15 ~~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 16:

In condition C.14 (previously C.16), the term “source” is replaced with “Permittee” as follows:

C.14 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 ~~source~~ **Permittee** must comply with the applicable requirements of 40 CFR 68.

Change 17:

The following revisions were made to the Emission Statement condition to incorporate the revisions to 326 IAC 2-6 that became effective March 27, 2004. The revised rule was published in the April 1, 2004 Indiana Register. Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). This Part 70 source located in Lake County has the potential to emit above threshold emissions in 326 IAC 2-6-3(a)(1); therefore, the source is required to submit an emission statement by July 1st each year. Condition C.17 (was C.20) is revised as follows:

C.17 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) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:~~

(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 ~~pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting)~~ **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 purposes of **Part 70** 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~~, P.O. Box 6015~~
Indianapolis, Indiana 4620**4-2251** ~~6-6015~~

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.

Change 18:

The Condition C.18 (was C.21) recordkeeping requirements have been revised to include new requirements for major NSR sources.

C.18 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 (or at a source with Plant-wide Applicability Limitation (PAL)), 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) Before beginning actual 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.

Change 19:

Comments have been received questioning what calendar year means, so clarification has been added to (e) of C.22 General Reporting Requirements. The Condition C.19 (was C.22) reporting requirements have been revised to include new requirements for major NSR sources.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] **[326 IAC 2-2] [326 IAC 2-3]**

(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,. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Change 20:

Since all applicable National Emission Standards for Hazardous Air Pollutants (NESHAPs) for this source have been promulgated, condition C.24 has been removed as follows:

~~Part 2 MACT Application Submittal Requirement~~

~~C.24 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)] [40 CFR 63.56(a)] [40 CFR 63.9(b)] [326 IAC 2-7-12]~~

~~(a) The Permittee shall submit a Part 2 MACT Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).~~

~~(b) Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:~~

~~(1) The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;~~

~~(2) The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or~~

~~(3) The MACT standard or standards for the affected source categories included at the source are promulgated.~~

~~(c) Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

Change 21:

Section D.11 has been revised to ensure that the permit conditions are consistent with the 40 CFR 63, Subpart CCC. Also pursuant to 40 CFR 63.1166, IDEM does not have authority for approval of alternate measurement methods or alternative monitoring requirements under this rule and those changes have been made to the Part 70 Permit. The changes to D.11.2, D.11.6, D.11.7 (was D.11.8), D.11.8 (was D.11.9) and D.11.9 (was D.11.10) are as follows:

D.11.2 National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants [40 CFR 63, Subpart CCC] **[40 CFR 63.1157]**

Pursuant to 40 CFR 63, Subpart CCC, the Pickling Line (S6A) shall comply with the following requirements:

(a) The Permittee shall not cause or allow to be discharged into the atmosphere from the affected pickling line:

(1) Any gases that contain HCl in a concentration in excess of 18 ppmv; or

(2) HCl at a mass emission rate that corresponds to a collection efficiency of less than 97 percent.

D.11.6 Testing Requirements [40 CFR 63.1161] **[40 CFR 63.1162]**

(a) Within twelve (12) months of permit issuance, the Permittee shall conduct a performance test for the Pickling Line (S6A) to determine and demonstrate compliance with the applicable emission limitation according to the requirements of 40 CFR 63.7 (Subpart A, General Provisions). This initial performance test 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~~, as applicable~~. 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) ~~Performance tests shall be conducted according to an alternative schedule approved by IDEM, OAQ, every two and half (2 .5) 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.~~ **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 half (2 .5) 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);** ~~condition D.5.2 and D.5.3, if required:~~

(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.

D.11.7 Monitoring Requirements [40 CFR 63.1162]

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 ~~applicable~~ **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 63.1160(b)(2)~~, if applicable~~.

(b) Failure to record each of the operating parameters in 40 CFR 63.1162(a)(2) is a violation of the monitoring requirements of 40 CFR 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 ~~IDEM, OAQ~~ **U.S. EPA**.

D.11.8 Record Keeping Requirements [40 CFR 63.1165]

(2) **In addition to the general** ~~R~~records ~~specifically~~ required ~~under~~ **by** 40 CFR 63.**1165(a)** ~~, Subpart CCC~~ **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~~, if applicable~~;

(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**

(~~D~~**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 the~~se~~ provisions **of 40 CFR 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** ~~R~~records **and** ~~maintained pursuant to the record keeping requirements of~~ 40 CFR 63, Subpart CCC **records**, **for the most recent 2 years of operation must be** ~~shall be~~ maintained on site for ~~a period of~~ 2 years. Records for the 3 previous years may be maintained off site.

~~(c) To document compliance with Condition D.6.4, the Permittee shall maintain records of fuel usage and burn natural gas only.~~

(~~d~~**c**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.11.9 Reporting Requirements [40 CFR 63.1164]

(a) As required by 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),** ~~T~~**t**he 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),** ~~T~~**t**he 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)** ~~I~~**i**f actions taken by a~~n~~ 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 owner/operator 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) Reports shall be submitted in accordance with Section C - General Reporting Requirements of this permit.

Change 22:

A change has been made to the Quarterly Deviation and Compliance Monitoring Report to clarify which deviations should be reported on the form and which should be reported per an applicable requirement as follows:

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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. ~~Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.~~ **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".

Change 23:

On February 8, 2005, IDEM in cooperation with Ispat Inland revised language in Section D.14 to clarify language for operations in the former mold foundry building. Currently in addition to Ispat's operations, Fritz Enterprises, a contractor for Ispat operates a Pigging Machine, but uses the baghouse owned by Ispat to control the emissions. In order to verify compliance with each process, the conditions have been revised to require Ispat and Fritz to operate at different times and each be responsible for monitoring requirements during their operations. These conditions will also be incorporated into the Part 70 Operating Permit for Fritz Enterprises (T089-20315-00465).

The Section A.2 (o)(1) and Section 14 Description Box has been revised as follows:

(o) Shops comprised of the following facilities, process equipment, and operational practices:

(1) Mold Foundry Building: Pugh Ladle Car Preparation, **dekishing, debricking** and **drying fired by natural gas (44)** ~~Iron Pigging including pugh ladle dekishing~~, and ~~p~~**P**ugh ladle ~~drying~~ **lancing** fired by natural gas~~.~~ **with** ~~Pigging and lancing~~ emissions ~~are~~ controlled by **former** mold foundry baghouse exhausting through stack 43. **This baghouse also controls Pugh Ladle pigging emissions resulting from the adjacent contractor's operation.**

Section D.14.1, D.14.5 (was D.14.6), D.14.6 (was D.14.7) and D.14.8 (was D.14.10) Conditions have been revised as follows:

D.14.1 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)),TSP and PM10 emissions from the Shop operations shall not exceed the following:

(a) PM10 emissions from the ~~Pugh Ladle Car Preparation and Iron Pigging~~ **former mold foundry baghouse** (43) shall not exceed 0.011 gr/dscf and 26 lbs/hr.

D.14.2 Emission Offsets [326 IAC 2-2][326 IAC 2-3]

The pugh car lancing operation and the dekishing and debricking operations shall be conducted inside the mold foundry building as required in CP No. 089-2905 issued on March 29, 1993. The emissions from **the** ~~pigging and~~ lancing operations**,** shall be captured and exhausted to the **former** mold foundry baghouse with particulate matter emissions not to exceed 26.0 pounds per hour and 0.011 grains per dry standard cubic foot of exhaust air. The iron ~~beaching~~ **dumping** operation, which accompanied these operations has been replaced by pigging. However, in an emergency **or**

when the pig machine is not available, iron ~~beaching~~ **dumping** is used. **Lancing of Pugh Ladles shall not occur simultaneously with Pugh ladle pigging operations at the adjacent contractor. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply.**

D.14.4 Particulate Matter (PM)

The **former** Mold Foundry, No. 6 Roll shop, Electric shop and No. 4 Roll Shop baghouses shall be operated at all times that related processes at the subject facilities are operating. At the **former** Mold Foundry that equipment includes Pugh Ladle Car Lancing ~~or Iron Pigging~~.

D.14.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the ~~Pugh Ladle Car Lancing and Iron Pigging~~ **former mold foundry** baghouse (43) stack exhausts 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.

D.14.6 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse used in conjunction with the ~~Pugh Ladle Car Lancing and Iron Pigging~~ **former** mold foundry baghouse (43) stack **when process is** in operation **once per day** ~~when~~ **and is** venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and ~~5~~**8**.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 Exceedences. A reading that is outside the ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedences shall be considered a violation of this permit.

D.14.8 Record Keeping Requirements

(a) To document compliance with Condition D.14.6 the Permittee shall maintain records of once per shift visible emission notations of the ~~Pugh Ladle Car Lancing and Iron Pigging~~ **former** mold foundry baghouse (43) stack exhausts.

(b) To document compliance with Condition D.14.7, the Permittee shall maintain once per shift records of the pressure drop across the **former mold foundry baghouse (43)** during normal operation when venting to the atmosphere:

Change 24:

Upon further review, IDEM has determined that once per day monitoring of 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. The following changes have been made to conditions D.2.19 (was D.2.21), D.3.11 (was D.3.14), D.4.5 (was D.4.6), D.5.12 (was D.5.15), D.6.9 (was D.6.12), D.7.7 (was D.7.8), D.8.17 (was D.8.19) and D.14.5 (was D.14.6):

D.2.19 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 7 blast furnace casthouse west baghouse (166) and No. 7 blast furnace casthouse east baghouse (167) stack exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.3.11 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the Sinter Plant windbox main baghouse stack, discharge end baghouse stack and upper screening station baghouse 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.4.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the Coal pulverizer D baghouse (187) and Coal pulverizer E baghouse (188) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.5.12 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 2 BOF shop charging aisle reladling and

desulfurization (Hot Metal Station) baghouse (152), No. 2 BOF shop No. 10 BOF and No. 20 BOF off-gas scrubber stacks (147) and (148), and No. 2 BOF shop secondary ventilation system scrubber (149) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.6.9 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37), No. 4 BOF shop reladling and desulfurization (Hot Metal Station) baghouse north (26) and No. 4 BOF reladling and desulfurization (Hot Metal Station) baghouse south (27) 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.7.7 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the No.1 and No. 2 Kiln baghouses stacks (45) and (49) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.8.13 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the electric arc furnace baghouse (141) exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

D.14.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the former mold foundry baghouse (43) stack exhausts 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 steps in accordance with Section C-Response to Excursions or Exceedences**. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a ~~violation of~~ **deviation from** this permit.

As a result of these changes, the following changes have also been made to Conditions D.2.24

(was D.2.28), D.3.15 (was D.3.21), and D.4.8 (was D.4.10) D.5.18 (was D.5.24), D.6.14 (was D.6.21), D.7.11 (was D.7.14), D.8.20 (was D.8.23) and D.14.8 (was D.14.10):

D.2.24 Record Keeping Requirements

(d) In order to document compliance with Condition D.2.21, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the No. 7 blast furnace casthouse west baghouse (166) and No. 7 blast furnace casthouse east baghouse (167) stack exhaust(s).

D.3.15 Record Keeping Requirements

(b) To document compliance with Condition D.3.14, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the windbox main baghouse (7), and discharge end baghouse (8) stack exhausts.

D.4.8 Record Keeping Requirements

(a) In order to document compliance with Condition D.4.6, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the Coal pulverizer D baghouse (187) and Coal pulverizer E baghouse (188) exhausts.

D.5.18 Record Keeping Requirements

(a) In order to document compliance with Condition D.5.15, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the No. 2 BOF charging aisle reladling and desulfurization baghouse (152), No. 2 BOF No. 10 off-gas scrubber stack (147), No. 2 BOF No. 20 off-gas scrubber stack (148), and No. 2 BOF secondary ventilation system scrubber (149) stack exhaust(s).

D.6.14 Record Keeping Requirements

(a) In order to document compliance with Condition D.6.12, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37) and No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) stack exhausts.

D.7.11 Record Keeping Requirements

(a) In order to document compliance with Condition D.7.8, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the No.1 and No. 2 Kiln baghouses stacks (45) and (49).

D.8.17 Record Keeping Requirements

(a) In order to document compliance with Condition D.8.19, the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the electric arc furnace operations baghouse stack exhaust(s).

D.14.8 Record Keeping Requirements

(a) To document compliance with Condition D.14.6 the Permittee shall maintain records of once per ~~shift~~ **day** visible emission notations of the former mold foundry baghouse (43) stack exhausts.

Change 25:

Upon further review, IDEM has determined that once per day monitoring of the control device 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. The following changes have been made:

D.1.~~13~~**8** Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the scrubber used in conjunction with the

No. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) at least once per ~~shift~~ **day** when the No. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse are in operation when venting to the atmosphere. The scrubbers shall be operated as follows:

D.2.~~22~~**20** Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace casthouse west baghouse (166), at least once per ~~shift~~ **day** when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.1-2.0 kPa 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

(b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace casthouse east baghouse (167), at least once per ~~shift~~ **day** when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.4-1.3 kPa 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.3.1~~5~~**2** Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the windbox main baghouse (7) used in conjunction with the sinter plant operations, at least once per ~~shift~~ **day** when the windbox, crusher, and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

(b) The Permittee shall record the pressure drop across discharge end baghouse (8) used in conjunction with the sinter plant operations, at least once per ~~shift~~ **day** when the windbox, crusher, and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main baghouse is outside the normal range of 2.0 and 8.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.4.~~7~~**6** Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the Coal pulverizer D (187) and Coal pulverizer E (188) at least once per ~~shift~~ **day** when the coal pulverizers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 1.5 kPa 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.5.1~~6~~**3** Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the ~~total static~~ pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 10 BOF (147), at least once per ~~shift~~ **day** when the 10 BOF is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 ~~violation of~~ **deviation of** this permit.

(b) The Permittee shall record the ~~total static~~ pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 20 BOF (148), at least once per ~~shift~~ **day** when the 20 BOF is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 ~~violation of~~ **deviation of** this permit.

(c) The Permittee shall record the ~~total static~~ pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop secondary ventilation system (149), at least once per ~~shift~~ during the hot metal charge. When for any one reading, the pressure drop across the baghouse is outside the normal range of 25 and 45 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 1250 gallons per minute, or a minimum rate 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 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 ~~violation of~~ **deviation of** this permit.

D.5.1~~9~~**5** Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the No. 2 BOF shop charging aisle reladling and desulfurization (Hot Metal Station) (152) at least once per ~~shift~~ **day** when the Hot metal station in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0-10.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.6.1~~3~~**0** Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the ~~total static~~ pressure drop and flow rate of the scrubber used in conjunction with the No. 4 BOF shop off-gas scrubber (38), at least once per ~~shift~~ **day** when the 4 BOF shop is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 25 and 40 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 600 gallons per minute, or a minimum rate 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 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 ~~violation of~~ **deviation of** this permit.

D.6.1~~6~~**2** Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 4 BOF hot metal transfer and desulfurization baghouse north (26) at least once per ~~shift~~ **day** when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

(b) The Permittee shall record the pressure drop across the baghouse and the fan amperage of the baghouse used in conjunction with the No. 4 BOF hot metal transfer and desulfurization baghouse south (27) at least once per ~~shift~~ **day** when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.0-12.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

(c) The Permittee shall record the pressure drop across the baghouse used in conjunction with No. 4 BOF shop secondary ventilation system baghouse (37) at least once per ~~shift~~ **day** when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.7.~~9~~**8** Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the No.1 and No. 2 Kiln baghouses (45) and (49) and Storage Silo baghouse (47) at least once per ~~shift~~ **day** when the No.1 and No. 2 Kiln and Storage Silo are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 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- Response to Excursions or Exceedances. A reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.8.~~20~~**14** Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse used in conjunction with the electric arc furnace (141) and ladle metallurgical station processes (143) at least once per ~~shift~~ **day** when the electric arc furnace and ladle metallurgical station processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.0-10.5 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

D.14.~~7~~**6** Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse used in conjunction with the **former** mold foundry baghouse (43) stack **when process is** in operation **once per day** ~~when~~ **and is** venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 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 reading that is outside the 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 ~~violation of~~ **deviation of** this permit.

As a As a result of these changes, the following changes have also been made to Conditions D.1.11 (was D.1.20), D.2.24 (was D.2.28), D.3.15 (was D.3.21), and D.4.8 (was D.4.10) D.5.18 (was D.5.24), D.6.14 (was D.6.21), D.7.11 (was D.7.14), D.8.20 (was D.8.23) and D.14.8 (was D.14.10):

D.1.11 Record Keeping Requirements

(b) To document compliance with Condition D.1.13, the Permittee shall maintain once per ~~shift~~ **day** records of the pressure drop across the scrubber and minimum flowrate during normal operation when venting to the atmosphere.

D.2.24 Record Keeping Requirements

(e) In order to document compliance with condition D.2.22, the Permittee shall maintain once per ~~shift~~ **day** records of pressure drop across the baghouse during normal operation when venting to the atmosphere.

D.3.15 Record Keeping Requirements

(c) To document compliance with Condition D.3.15, the Permittee shall maintain once per ~~shift~~ **day** records of pressure drop across the baghouse during normal operation when venting to the atmosphere.

D.4.8 Record Keeping Requirements

(b) In order to document compliance with Condition D.4.7, the Permittee shall maintain the records once per ~~shift~~ **day** of the ~~total static~~ pressure drop across the baghouse during normal operation.

D.5.18 Record Keeping Requirements

(b) In order to document compliance with condition D.5.16, the Permittee shall maintain the pressure drop across the scrubbers and flowrate once per ~~shift~~ **day** during normal operation.

(c) In order to document compliance with condition D.5.19, the Permittee shall maintain once per ~~shift~~ **day** records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

D.6.14 Record Keeping Requirements

(b) To document compliance with Condition D.6.13, the Permittee shall maintain the records, once per ~~shift~~ **day** of the pressure drop across the scrubber and flowrate during normal operation.

(c) In order to document compliance with condition D.6.16, the Permittee shall maintain the records once per ~~shift~~ **day** of the pressure drop across the baghouses during normal operation.

D.7.11 Record Keeping Requirements

(b) To document compliance with Condition D.7.9, the Permittee shall maintain the records of the pressure drop across the baghouses once per ~~shift~~ **day** during normal operation.

D.8.18 Record Keeping Requirements

(b) In order to document compliance with condition D.8.20, the Permittee shall maintain the once per ~~shift~~ **day** records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

D.14.8 Record Keeping Requirements

(b) To document compliance with Condition D.14.7, the Permittee shall maintain once per ~~shift~~ **day** records of the pressure drop across the **former mold foundry baghouse (43)** during normal operation when venting to the atmosphere.

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 inspections has been removed.

~~D.1.14 Scrubber Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of the scrubbers controlling the No. 5 Blast Furnace Casthouse scrubbers (1) and No. 6 Blast Furnace Casthouse scrubber (2) that vents to the atmosphere.~~

~~D.2.23 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the No. 7 blast furnace casthouse west baghouse (166) and No. 7 blast furnace casthouse east baghouse (167) when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.3.16 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed within the last month of each calendar quarter of all bags controlling the the windbox main baghouse (7) and discharge end baghouse (8) when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. All defective bags shall be replaced.~~

D.3.18 Upper Screening Station Baghouse Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

Pursuant to CP 089-9176, issued on March 30, 1998:

~~(a) An inspection shall be performed each calendar quarter of the upper screening station baghouse (11). Defective bags shall be replaced. A record shall be kept of the results of the inspection and the number of bags replaced.~~

~~(b)~~ The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Response to Excursions or Exceedances shall be initiated. For any failure with corresponding response steps and timetable not described in the Response to Excursions or Exceedances, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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.4.8 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the Coal pulverizer D (187) and Coal pulverizer E (188) process operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.5.17 Scrubber Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of the No. 2 BOF shop No. 10 BOF and No. 20 BOF off-gas scrubber (147) and (148), and No. 2 BOF shop secondary ventilation system scrubber (149). Inspections required by this condition shall not be performed in consecutive~~

~~months.~~

~~D.5.20 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the No. 2 BOF charging aisle reladling and desulfurization (152) process operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.6.15 Scrubber Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of the No. 4 BOF shop off-gas scrubber (38). Inspections required by this condition shall not be performed in consecutive months.~~

~~D.6.17 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) and No. 4 BOF shop secondary ventilation system baghouse (37) process operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.7.10 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the No.1 and No. 2 Kiln stack (45) and (49) and Storage Silo baghouse (47). Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.8.21 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the electric arc furnace and ladle metallurgical station operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

~~D.14.8 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~An inspection shall be performed each calendar quarter of all bags controlling the former mold foundry baghouse (43) when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

As a As a result of these changes, the following changes have also been made to Conditions D.1.11 (was D.1.20), D.2.24 (was D.2.28), D.3.15 (was D.3.21), and D.4.8 (was D.4.10) D.5.18 (was D.5.24), D.6.14 (was D.6.21), D.7.11 (was D.7.14), D.8.20 (was D.8.23) and D.14.8 (was D.14.10):

D.1.11 Record Keeping Requirements

~~(c) In order to document compliance with Condition D.1.14, the Permittee shall maintain records of the results of the inspections.~~

D.2.24 Record Keeping Requirements

~~(f) In order to document compliance with Condition D.2.23, the Permittee shall maintain records of the results of the inspections.~~

D.3.15 Record Keeping Requirement

~~(d) In order to document compliance with Condition D.3.16 and D.3.18, the Permittee shall maintain records of the results of the inspections required under Condition D.3.16 and D.3.18.~~

D.4.8 Record Keeping Requirements

~~(c) In order to document compliance with Condition D.4.8, the Permittee shall maintain records of the results of the inspections required under Condition D.4.8.~~

D.5.18 Record Keeping Requirements

~~(d) In order to document compliance with Condition D.5.17 and D.5.20, the Permittee shall maintain records of the results of the inspections.~~

D.6.14 Record Keeping Requirements

~~(c) In order to document compliance with Condition D.6.15, the Permittee shall maintain records of the results of the inspections required under Condition D.6.15.~~

(~~d~~**c**) In order to document compliance with condition D.6.16, the Permittee shall maintain the records once per day of the pressure drop across the baghouses during normal operation.

~~(e) In order to document compliance with Condition D.6.17, the Permittee shall maintain records of the results of the inspections required under Condition D.6.17.~~

D.7.11 Record Keeping Requirements

~~(c) To document compliance with Condition D.7.10 the Permittee shall maintain records of the results of the inspections required under Condition D.7.10.~~

D.8.18 Record Keeping Requirements

~~(c) In order to document compliance with Condition D.8.21, the Permittee shall maintain records of the results of the inspections required under Condition D.8.21.~~

D.14.8 Record Keeping Requirements

~~(c) To document compliance with Condition D.14.8, the Permittee shall maintain records of the results of the inspections required under Condition D.14.8.~~

Change 27:

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 the Condition listed as Particulate Control (formerly marked Particulate Matter (PM)) in the Compliance Determination Section 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 the Broken or Failed Baghouse has been revised for those processes that operate in continuous mode. The condition required an emission unit to be shut down immediately in case of baghouse failure. However, IDEM is aware there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised the condition to state that in the case of baghouse failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable.

D.1.~~15~~**9** Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, ~~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.1.~~11~~**7** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) In order to comply with D.1.3 (a), the coal storage bin baghouse H (191) for PM control shall be in operation and control emissions from the Pulverized Coal Storage Bin at all times that the No. 5 and No. 6 Blast Furnaces 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.**

D.2.2~~4~~**1** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.2.1~~9~~**8** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(f) **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.3.1~~7~~**3** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~In the event that bag failure has been observed at the windbox main baghouse (7) and discharge end baghouse (8):~~

~~(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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.3.18 Upper Screening Station Baghouse Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~Pursuant to CP 089-9176, issued on March 30, 1998:~~

~~The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) 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) hours of discovery of the failure and shall include a timetable for completion. 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.3.~~11~~**9** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The main and discharge end baghouses for particulate control shall be in operation at all times when the windbox, crusher, and cooler are in operation. During startup situations the windbox exhaust will not be initially directed to the main stack baghouse to prevent condensation damage to the baghouse. The exhaust will be redirected to the baghouse before the exhaust temperature exceeds 160 degrees F.

(b) Pursuant to CP 089-9176-00316 issued on March 30, 1998, the upper screening station baghouse shall be operated at all times the upper screening station is in operation.

(c) 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.4.~~9~~**7** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.4.4 ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) In order to comply with D.4.1, the baghouses for PM_{10} control shall be in operation and control the PCI Systems A-G except B (which was never built) are in operation.

(b) Pursuant to CP 089-2016-00316 issued on August 22, 1991, the equipment listed in the start of this section shall be operated and maintained in accordance with the manufacturer's specifications.

(c) 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.5.1~~8~~**4** Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, ~~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.5.~~2~~1**6** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.5.1~~2~~**0** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The No. 2 BOF truck and ladle hopper baghouse (150) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(b) The No. 2 BOF alloy and flux storage baghouse (151) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(c) The No. 2 BOF charging aisle reladling and desulfurization baghouse (152) for PM control shall be in operation at all times that the Hot metal station is in operation.

(d) The No. 2 BOF secondary ventilation system scrubber (149) for PM control shall be in operation at all times that either of the furnaces are in operation.

(e) The No. 2 BOF ladle metallurgical station baghouse (154) for PM control shall be in operation at all times that the ladle metallurgy facility station is in operation.

(f) The No. 2 BOF caster fume collection baghouse (159) for PM control shall be in operation at all times that the continuous caster is in operation.

(g) The No. 2 BOF tundish dump baghouse (156) for PM control shall be in operation at all times that the tundish dump and repair station are handling leaded steel/bloom tundishes. (This baghouse is only used for dumping leaded steel/bloom tundishes.)

(h) 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.6.14**1** Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In the event that a scrubber system failure has been observed:

The feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable, ~~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.6.1~~8~~**3** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.~~10~~**8** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The hot metal transfer and desulfurization operation baghouses (26 and 27) for PM control shall be in operation at all times that any of the respective processes are in operation.

(b) The BOF and process off-gas scrubber system (38) and secondary ventilation baghouse (37) shall be in operation at all times that either of the furnaces are in operation.

(c) Raw material handling for RHOB facility baghouse (33) shall be in operation at all times that any of the processes are in operation.

(d) 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.7.~~11~~**9** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouses **controlling emissions from a process operated continuously**, 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 **a** failed units and the associated process **shall** be shut down immediately until the failed units have **has** 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.7.6 ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The No.1 and No. 2 Kiln baghouses (45), (49), Storage Silo baghouse (47), micro-pulse baghouse (46) and Truck loadout baghouse (48) for PM control shall be in operation and control emissions from the No. 1 Lime Plant operations at all times that the No. 1 Lime Plant is in operation and associated equipment is also 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.

D.8.~~22~~**15** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouses~~s~~ **controlling emissions from a process operated**

continuously, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.8.1~~7~~**2** ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The electric arc furnace baghouse (141) for PM10 control shall be in operation at all times that the electric arc furnace is in operation.

(b) The ladle metallurgical station baghouse (143) for PM10 control shall be in operation at all times that the ladle metallurgical station is in operation.

(c) 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.14.~~9~~**7** Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~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 - Response to Excursions or Exceedances shall be considered a violation 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 **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~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~~ **a** failed unit~~s~~ and the associated process **shall** be shut down immediately until the failed unit~~s~~ ~~have~~ **has** 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.14.4 ~~Particulate Matter (PM)~~ **Particulate Control [326 IAC 2-7-6(6)]**

(a) The former Mold Foundry, No. 6 Roll shop, Electric shop and No. 4 Roll Shop baghouses shall be operated at all times that related processes at the subject facilities are operating. At the Mold Foundry that equipment includes Pugh Ladle Car Lancing or Iron Pigging.

(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.

Change 28:

40 CFR 63, Subpart FFFFF had a compliance date of May 22, 2006. IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance in a new Section G.

On February 17, 2005, the Permittee requested an extension to meet the compliance standards in 40 CFR 63, Subpart FFFFF until May 22, 2007 at the No. 4 BOF Shop. The specific details of the rule and how the Permittee will demonstrate compliance are not provided in the permit for the No. 4 BOF Shop. The Permittee shall submit an application for a Significant Permit Modification, no later than May 22, 2007, that will provide the specific details of the rule and how the Permittee will demonstrate compliance.

The following changes have been made to Section G and Sections D.1, D.2, and D.3, D.5 and D.6 and conditions renumbered accordingly:

~~D.1.1 General Provisions Relating to 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee must comply with these 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.~~

~~D.1.2 National Emission Standards for Hazardous Air Pollutants 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 Air Toxics Website at http://www.epa.gov/ttn/atw/mcm/mcmpg.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, in 40 CFR Part 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 No. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2).~~

~~(e) The Permittee shall meet each operation and maintenance requirement in 40 CFR 63.7800 that applies to the No. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written startup, shutdown, and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of startup, 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse and required capture and control equipment.~~

~~D.1.8 National Emission Standards for Hazardous Air Pollutants 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.1.2 at all times, except during periods of startup, shutdown, and malfunction as defined in 40 CFR 63.2, which is 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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 emission limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse and required capture and control equipment in accordance with 40 CFR 63.7834.~~

~~D.1.9 National Emission Standards for Hazardous Air Pollutants 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse in accordance with 40 CFR 63.7820.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2).~~

~~(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 No. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2).~~

~~(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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse and required capture and control equipment.~~

~~D.1.18 National Emission Standards for Hazardous Air Pollutants 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse 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. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse in accordance with 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, Subpart FFFFF in accordance with 40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

~~D.1.21 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing - Reporting Requirements for Blast Furnaces [40 CFR 63.7835][40 CFR 63.7840]~~

~~(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 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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~The initial notification requires the certification by the "responsible official" as defined by 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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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 startup, shutdown, or malfunction occurred during the semiannual reporting period that was not consistent with the startup, shutdown, and malfunction plan, the Permittee shall submit an immediate startup, shutdown, and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

~~D.1.22 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 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 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.2.1 General Provisions Relating to 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. 7 Blast Furnace Casthouse except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee must comply with these 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.~~

~~D.2.2 National Emission Standards for Hazardous Air Pollutants 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 Air Toxics Website at http://www.epa.gov/ttn/atw/mcm/mcmpg.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, in 40 CFR Part 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 No. 7 blast furnace (West (canopy) baghouse) (166) and No. 7 blast furnace (East (casthouse) baghouse) (167).~~

~~(e) The Permittee shall meet each operation and maintenance requirement in 40 CFR 63.7800 that applies to the No. 7 Blast Furnace Casthouse and required capture and control equipment.~~

~~(f) The Permittee shall develop and implement a written startup, shutdown, and malfunction plan in accordance with 40 CFR 63.7810(c). During periods of startup, 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. 7 Blast Furnace Casthouse 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. 7 Blast Furnace Casthouse and required capture and~~

~~control equipment.~~

~~D.2.15 National Emission Standards for Hazardous Air Pollutants 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.2.2 at all times, except during periods of startup, shutdown, and malfunction as defined in 40 CFR 63.2, which is 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. 7 Blast Furnace Casthouse 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. 7 Blast Furnace Casthouse 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 emission limitations of 40 CFR 63, Subpart FFFFF that apply to the No. 7 Blast Furnace Casthouse 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. 7 Blast Furnace Casthouse and required capture and control equipment in accordance with 40 CFR 63.7834.~~

~~D.2.16 National Emission Standards for Hazardous Air Pollutants 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. 7 Blast Furnace Casthouse in accordance with 40 CFR 63.7820.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the No. 7 Blast Furnace Casthouse 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. 7 blast furnace (West baghouse) (166) and No. 7 blast furnace (East baghouse) (167).~~

~~(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 No. 7 blast furnace (West baghouse) (166) and No. 7 blast furnace (East baghouse) (167).~~

~~(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. 7 Blast Furnace Casthouse and required capture and control equipment.~~

~~D.2.27 National Emission Standards for Hazardous Air Pollutants 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. 7 Blast Furnace Casthouse 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. 7 Blast Furnace Casthouse in accordance with 40 CFR 63.7842(d).~~

~~(f) The Permittee shall keep the records required by 40 CFR 63, Subpart FFFFF in accordance with 40 CFR 63.7843 and the General Record Keeping Requirements in Section C of this permit.~~

~~D.2.29 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing - Reporting Requirements for Blast Furnaces [40 CFR 63.7835][40 CFR 63.7840]~~

~~(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 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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~The initial notification requires the certification by the "responsible official" as defined by 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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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 startup, shutdown, or malfunction occurred during the semiannual reporting period that was not consistent with the startup, shutdown, and malfunction plan, the Permittee shall submit an immediate startup, shutdown, and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7841(c).~~

~~D.2.30Requirement 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 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.3.1 General Provisions Relating to HAPs [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]~~

~~(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, Sinter Plant, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee shall comply with these 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.~~

~~D.3.2 National Emissions Standards for Hazardous Air pollutants 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 Air Toxics Website at http://www.epa.gov/ttn/atw/mcm/mcmpg.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, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

~~(d) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to Sinter Plant and required capture and control equipment.~~

~~(e) 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).~~

~~(f) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the Sinter Plant and required capture and control equipment.~~

~~(g) 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 Sinter Plant and required capture and control equipment.~~

~~D.3.8 National Emission Standards for Hazardous Air Pollutants 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.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 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 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 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 Sinter Plant and required capture and control equipment in accordance with 40 CFR 63.7834.~~

~~D.3.9 National Emission Standards for Hazardous Air Pollutants 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 Sinter Plant, in accordance with 40 CFR 63.7821.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the 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 Windbox baghouse (7) and Discharge end and cooler baghouse (8).~~

~~(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 Windbox baghouse (7) and Discharge end and cooler baghouse (8).~~

~~(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 Sinter Plant and required capture and control equipment.~~

~~D.3.20 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing - Record Keeping Requirements for Sinter Plants [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 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 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.~~

~~D.3.23 National Emission Standards for Hazardous Air Pollutants 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 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015~~

~~and~~

~~United State Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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).~~

~~D.3.24 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 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 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 **for affected source** 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.5.1 General Provisions Relating to HAPs [326 IAC 20-1][40 CFR 63, Subpart A] [Table 4 to 40 CFR 63, Subpart FFFFF]~~

~~(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, Basic Oxygen Furnace (BOF), except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee shall comply with these 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.~~

~~D.5.2 National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Furnace (BOF) [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 Air Toxics Website at http://www.epa.gov/ttn/atw/mcm/mcmpg.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, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.8105, and are applicable to the affected source.~~

~~(d) The Permittee shall meet each operation and maintenance requirements in 40 CFR 63.7800 that applies to Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~(e) 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).~~

~~(f) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~(g) 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 Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~D.5.9 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing - Compliance Requirements for Basic Oxygen Furnace (BOF) [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.5.2 at all times, except during periods of start-up, shutdown and malfunction as defined in 40 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 Basic Oxygen Furnace (BOF) in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the Basic Oxygen Furnace (BOF), 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 Basic Oxygen Furnace (BOF) 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 Basic Oxygen Furnace (BOF) and required capture and control equipment in accordance with 40 CFR 63.7834.~~

~~D.5.10 National Emission Standards for Hazardous Air Pollutants 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 Basic Oxygen Furnace (BOF), in accordance with 40 CFR 63.7821.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the Basic Oxygen Furnace (BOF), 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. 2 BOF No. 10 (147), No. 2 BOF No. 20 (148), Hot Metal Station (reladling, desulfurization and slag skimming)(152), Ladle Metallurgy Facility (154) and BOF roof monitor (153).~~

~~(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 No. 2 BOF No. 10 (147), No. 2 BOF No. 20 (148), Hot Metal Station (reladling, desulfurization and slag skimming)(152), Ladle Metallurgy Facility (154) and BOF roof monitor (153).~~

~~(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 Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~D.5.23 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for Basic Oxygen Furnace (BOF) [40 CFR 63.7810(b)][40 CFR 3 Basic Oxygen Furnace (BOF) process and control equipment 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 Basic Oxygen Furnace (BOF) 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 Basic Oxygen Furnace (BOF) 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.~~

~~D.5.25 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Reporting Requirements for Basic Oxygen Furnace (BOF) [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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United State Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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).~~

~~D.5.26 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 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 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.6.1 General Provisions Relating to 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, Basic Oxygen Furnace (BOF), except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. ~~The Permittee shall comply with these 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.~~

D.6.2 National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing - Emission Limitations for Basic Oxygen Furnace (BOF) [40 CFR 63, Subpart FFFFF]

(a) The provisions of affected source is subject to the 40 CFR 63, Subpart FFFFF National Emission Standards for Hazardous Air Pollutants: Integrated Iron and Steel Manufacturing (40 CFR 63, Subpart FFFFF) as of May 20, 2003. apply to the affected sources. 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 63.7783(a),** ~~T~~the Permittee must comply with these requirements on and after May 22, 2006.

(b) The following emission units comprise the affected source which is subject to 40 CFR 63, Subpart FFFFF:

No. 4 Basic Oxygen Furnace (BOF)

(c) ~~Terminology used in this section are defined in the CAA, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.8105, and~~ **The definitions of 40 CFR 63. Subpart FFFFF at 40 CFR 63.7852 are** applicable to the affected source.

(~~b~~**d**) 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**.

~~(e) 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).~~

~~(f) The Permittee shall meet each monitoring requirement in 40 CFR 63.7830 that applies to the Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~(g) 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 Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~D.6.7 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing - Compliance Requirements for Basic Oxygen Furnace (BOF) [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.6.2 at all times, except during periods of start-up, shutdown and malfunction as defined in 40 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 Basic Oxygen Furnace (BOF) in accordance with 40 CFR 63.7825.~~

~~(c) The Permittee shall demonstrate initial compliance with the operation and maintenance requirements that apply to the Basic Oxygen Furnace (BOF), 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 Basic Oxygen Furnace (BOF) 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 Basic Oxygen Furnace (BOF) and required capture and control equipment in accordance with 40 CFR 63.7834.~~

~~D.6.8 National Emission Standards for Hazardous Air Pollutants 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 Basic Oxygen Furnace (BOF), in accordance with 40 CFR 63.7821.~~

~~(b) The Permittee shall conduct subsequent performance tests that apply to the Basic Oxygen Furnace (BOF), 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. 4 BOF No. 50 and No. 60 furnaces (37 and 38), Hot Metal Station (reladling, desulfurization and slag skimming)(26 and 27), and BOF roof monitor (29).~~

~~(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 No. 4 BOF No. 50 and No. 60 furnaces (37 and 38), Hot Metal Station (reladling, desulfurization and slag skimming)(26 and 27), and BOF roof monitor (29).~~

~~(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 Basic Oxygen Furnace (BOF) and required capture and control equipment.~~

~~D.6.20 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Record Keeping Requirements for Basic Oxygen Furnace (BOF) [40 CFR 63.7810(b)][40 CFR 3 Basic Oxygen Furnace (BOF) process and control equipment 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 Basic Oxygen Furnace (BOF) 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 Basic Oxygen Furnace (BOF) 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.~~

~~D.6.22 National Emission Standards for Hazardous Air Pollutants from Integrated Iron and Steel Manufacturing- Reporting Requirements for Basic Oxygen Furnace (BOF) [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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United State Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

~~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).~~

D.6.~~23~~**15** 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 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 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 **for the affected source** shall be submitted no later than ~~nine (9) months prior to~~ May 22, 2007.

(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

SECTION G

Facility Description [326 IAC 2-7-5(15)]:

The affected sources are each new or existing sinter plant windbox exhaust, discharge end, and sinter cooler; the blast furnace casthouse; and the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy

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

G.1.1 General Provisions Relating to 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, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee must comply with the following requirements:

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, blast furnace, and basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.
(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler; the blast furnace casthouse; and the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).
(d) A sinter plant, blast furnace, or 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.

§ 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.

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 emissions from a sinter plant discharge end or blast furnace casthouse or 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.
(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 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 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.

§ 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 (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 or 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).

(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.

(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.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end or 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.

(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.

(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.

(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 or blast furnace casthouse or 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.

(2) If you use a flow measurement device to monitor the operating limit parameter for a sinter plant discharge end or blast furnace casthouse, 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.

(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.

(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.

§ 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.

(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.

(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.**
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).**
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; 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.
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.**
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.**
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 . . .
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 procedure in § 63.7822(b), did not exceed 0.03 gr/dscf.**
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 exceed 0.01 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).**
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; 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.**
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.**
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.**
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(d), 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 . . .
1. Each windbox exhaust stream at an existing sinter plant...	a. Maintaining emissions of particulate matter at or below 0.4 lb/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).
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).
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;

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; 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; 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 0.01gr/dscf at an existing 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 FFFFFspecifies 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 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)-(e), (c)(7)-(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), (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 (CMS) 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)-(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 electrostatic precipitators.**
§ 63.10(b)(2) (xi)-(xii)	**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:

40 CFR 63, Subpart AAAAA has a future compliance date; therefore, the specific details of the rule and how the Permittee will demonstrate compliance are not provided in the permit. The Permittee shall submit an application for a Significant Permit Modification no later than January 5, 2007, that will provide 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. At that time, IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance. The following changes have been made to Section D.7 and conditions renumbered accordingly:

D.7.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 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,** ~~lime manufacturing plant~~ except when otherwise specified in Table 8 to 40 CFR 63 Subpart AAAAA. ~~The Permittee shall comply with these requirements on and after the effective date of 40 CFR 63 Subpart AAAAA.~~

~~(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.~~

D.7.2 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [40 CFR 63, Subpart AAAAA]

~~(a) Pursuant to 40 CFR 63, Subpart AAAAA, the Permittee shall comply with the applicable emission limitations for the existing affected lime manufacturing plant, and shall complete all applicable performance tests no later than three years from the date of publication of the final rule in the Federal Register. The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart AAAAA: The No.1 and No. 2 Kiln (45), (49), and their associated cooler(s), and processed stone handling (PSH) operation system(s). 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.~~

(a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing Plants, (40 CFR 63, Subpart AAAAA), as of January 5, 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 63.7083(b), the Permittee must comply with these requirements on and after January 5, 2007.

(b) The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart AAAAA:

The No.1 and No. 2 Kiln baghouses (45), (49), and their associated cooler(s), and processed stone handling (PSH) operation system(s)

(c) ~~Terminology used in this section are defined in the CAA, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.7143, and~~ **The definitions of 40 CFR 63. Subpart AAAAA at 40 CFR 63.7143**are applicable to the affected source

(d) 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.

~~D.7.13 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants - Reporting Requirements [40 CFR 63, Subpart AAAAA]~~

~~(a) Pursuant to 40 CFR 63.7130, the Permittee shall submit all of the notifications in 40 CFR 63.6(h)(4) and (5); 63.7(b) and (c); 63.8(e); (f)(4) and (6); and 63.9 (a) through (j) that apply to the affected source and chosen compliance method, 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) no later than 120 days after the effective date of 40 CFR 63, Subpart AAAAA.~~

~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7130(d).~~

~~(3) If required to conduct a performance test, design evaluation, opacity observation, visibility emissions observation, or other initial compliance demonstration as specified in Table 3 or 4 to 40 CFR 63, Subpart AAAAA, a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 63.7130(e). The Notification of Compliance Status must be submitted:~~

~~(A) Before the close of business on the 30th calendar day following completion of the initial compliance demonstration for each initial compliance demonstration required in Table 3 to 40 CFR 63, Subpart AAAAA, that does not include a performance test; and~~

~~(B) Before the close of business on the 60th calendar day following the completion of the performance test according to the requirement specified in 40 CFR 63.10(d)(2) for each initial compliance demonstration required in Table 5 to 40 CFR 63, Subpart AAAAA that includes a performance test conducted according to the requirements in Table 4 to 40 CFR 63, Subpart AAAAA.~~

~~(4) If required to conduct opacity or visible emissions observations as required by Table 4 to 40 CFR 63 Subpart AAAAA, the anticipated date for conducting the opacity or visible emission observations specified in 40 CFR 63.6(h)(5) in accordance with the appropriate schedule specified in 40 CFR 63.9(f) as required by 40 CFR 63.7130(a).~~

~~(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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~and~~

~~United States Environmental Protection Agency, Region V~~
~~Director, Air and Radiation Division~~
~~77 West Jackson Boulevard~~
~~Chicago, Illinois 60604-3590~~

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

D.7.1~~5~~**2** 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.

(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 AAAAA, 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 twenty-seven months after the effective date of ~~40 CFR 63, Subpart AAAAA~~ **January 5, 2007**.

(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

Change 30:

No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503 is subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503 comprises 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. 40 CFR 63, Subpart DDDDD has a future compliance date; therefore, the specific details of the rule and how the Permittee will demonstrate compliance are not provided in the permit. The Permittee shall submit an application for a Significant Permit Modification no later than September 13, 2007, that will provide 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. At that time, IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance. The following conditions have been added to D.13 and conditions renumbered accordingly:

D.13.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart 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.

D.13.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 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 November 12, 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(b), the Permittee must comply with these requirements on and after September 13, 2007.

(b) The following emissions unit comprises the affected source for the large gaseous fuel subcategory:

No.2 AC Station Boilers 211-213
No. 5 Boilerhouse 501-503.

(c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.

(d) 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.

D.13.14 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 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 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 shall be submitted no later than nine (9) months prior to September 13, 2007.

(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

Change 31:

The 6-1 rules have been repealed. All non-Lake County PM limitations have been placed into 6.5 All Lake County PM limitations have been put into 6.8

These changes were published in the September 1, 2005 Indiana Register. The following changes have been made throughout the Part 70 Operating Permit:

Previous Rule number	New Rule number
326 IAC 6-1-2	326 IAC 6.8-1-2
326 IAC 6-1-10.1(d)	326 IAC 6.8-2
326 IAC 6-1-10.1(d)(19)	326 IAC 6.8-2-17
326 IAC 6-1-10.1(e)	326 IAC 6.8-3
326 IAC 6-1-10.1(f)	326 IAC 6.8-3-1
326 IAC 6-1-10.1(h)	326 IAC 6.8-6
326 IAC 6-1-10.1(h)(13)	326 IAC 6.8-6-10
326 IAC 6-1-10.1(k)(5)(F)	326 IAC 6.8-7-5
326 IAC 6-1-10.1(l)	326 IAC 6.8-8-1
326 IAC 6-1-10.1(p)	326 IAC 6.8-8-5
326 IAC 6-1-10.1(r)	326 IAC 6.8-8-7
326 IAC 6-1-10.1(u)	326 IAC 6.8-8-8
326 IAC 6-1-11.1	326 IAC 6.8-10
326 IAC 6-1-11.1(c)	326 IAC 6.8-10-2
326 IAC 6-1-11.1(d)	326 IAC 6.8-10-3
326 IAC 6-1-11.1(e)	326 IAC 6.8-10-4
326 IAC 6-1-11.2(h),(i)	326 IAC 6.8-11-4
326 IAC 6-1-11.2(j)	326 IAC 6.8-11-5
326 IAC 6-1-11.2(k)(l)(m)(n)(o)(p)	326 IAC 6.8-11-6

Change 32:

Upon further review, IDEM OAQ has determined that Condition D.8.7 (Ladle Preheater Opacity) is an obsolete requirement and without basis for the requirement to be included. Therefore, Condition D.8.7 has been deleted and all subsequent conditions have been renumbered as follows:

~~D.8.7 Ladle Preheaters Opacity~~

~~Pursuant to Construction Permit (45) 1856 issued October 17, 1990, opacity from any stack, other process exhaust, building roof monitor, or building opening due to the operation of the five (5) preheaters shall not exceed five (5) percent opacity, as determined by 40 CFR 60, appendix A, Method 9 and 326 IAC 5-1.~~

Change 33:

Upon further review, IDEM, OAQ has determined that the required testing in conditions D.2.16(c), D.5.9 (b), D.6.7 (b) and D.13.10 has been completed for the reline project at the No. 7 Blast Furnace. The source has submitted a request for modification using actual performance test data to be used for calculating limits for CO for the blast furnaces at this source. The following changes have been made to Conditions D.2.16, D.5.9, D.6.7 and D.13.10:

D.2.16 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

~~(c) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.2.8 for stack 170 for the Stoves, stacks 166 and 167 the West and East baghouses for the No.7 Blast Furnace casthouse. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C – Performance Testing.~~

D.5.9 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

~~(a)~~ Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.3 and 5.4, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

~~(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform Lead (Pb) emissions testing, utilizing methods approved by the Commissioner to show compliance with emission factors in Appendix A to this permit, for stack 147 or 148 for the off-gas scrubber for 10 BOF or 20 BOF and stack 149 for the secondary ventilation system scrubber at the No.2 BOF. Testing shall be conducted in accordance with Section C – Performance Testing.~~

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

~~(a)~~ Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No. 4 BOF (stack 38) utilizing a testing method approved by the Commissioner to show compliance with conditions D.6.3 and D.6.4, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

~~(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform Lead (Pb) emissions testing, utilizing methods approved by the Commissioner to show compliance with emission factors in Appendix A to this permit, for stack 38 for the off-gas scrubber for No.4 BOF and stack 37 for the secondary ventilation system baghouse at the No.4 BOF. Testing shall be conducted in accordance with Section C - Performance Testing.~~

D.13.10 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

~~(a) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for~~

~~the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C - Performance Testing.~~

~~(b)~~ Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

Change 34:

Ispat Inland, Inc. was purchased by Mittal Steel and will now be named Mittal Steel USA Inc.-Indiana Harbor East. All references to Ispat Inland have been changed to reflect the new name throughout the Part 70 Permit.

On June 25, 2004, Ispat Inland, Inc. (now Mittal Steel USA Inc.-Indiana Harbor East) submitted comments on the proposed Part 70 permit. The comments and IDEM responses (with language added shown in bold and language in strikeout) are as follows:

Comment 1:

(a) Consistent with IDEM's intention to issue separate permits to all of the sources that collectively constitute "the Source", the cover page of the draft permit should reference "Ispat Inland Inc. Plant ID 089-00316, 3210 Watling Street, East Chicago, Indiana 46312." Additionally, "Source Summary" on the cover page and the title of Section A should be changed to "Source Summary/Ispat Inland Inc. Plant ID 089-00316."

(b) In the first sentence of Condition B.8 after the word "submitted", insert "by Ispat Inland Inc. Plant ID 089-00316 for facilities/emission units which are the subject of this permit . . .." This additional language is necessary to clarify that Condition B.8, Certification, applies to Ispat Inland Inc.'s (Plant ID 089-00316) facility/emission units and not to any of the on-site contractors' facilities/emission units.

(c) Consistent with previous comments, in Condition B.12(b), replace "the source" with "Ispat Inland Inc. Plant ID 089-00316."

(d) Consistent with previous comments, in the second sentence of Condition B.16(a), replace "this source" with "Ispat Inland Inc. Plant ID 089-00316."

(e) Consistent with previous comments, in Condition B.16(c), replace "the source's" with "Ispat Inland Inc.'s (Plant ID 089-00316)."

(f) Consistent with previous comments, in Conditions B.19 (a) and B.22 (a) and (b), replace "the source" with "Ispat Inland Inc. Plant ID 089-00316."

(g) Consistent with prior comments, the title of Section C of the draft Permit should be modified to state: "Ispat Inland Inc. Plant ID 089-00316 Operation Conditions." Additionally, delete "Entire Source" in the box under the Section C title and replace it with "All Ispat Inland Inc. Plant ID 089-00316 Facilities."

(h) Consistent with previous comments, in Condition C.16, replace "a source" with "Ispat Inland Inc. Plant ID 089-00316" and replace "the source" with "the Permittee."

(i) Consistent with previous comments, in the second sentence of Condition C.21(a), replace

"source" with "Ispat Inland Inc. Plant ID 089-00316."

Response 1:

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.

While the permit only includes the emission units of Mittal Steel USA Inc. - Indiana Harbor East, the "source" does include all contractors located on-site, as listed in A.2. Making the requested changes to include only the Plant ID for Mittal Steel USA Inc. - Indiana Harbor East would be misleading in terms of the source definition and requirements for co-located sources. No changes will be made to this permit as a result of these comments.

Comment 2:

The Table of Contents needs to be modified consistent with these comments and Sections A, B, C, D, E and F of the draft Permit.

Response 2:

All changes made to this permit as a result of comments have been made to the Table of Contents and other appropriate sections and conditions.

Comment 3:

Correct the Title to Section A.2 as follows: "Part 70 Source Definition [326 IAC 2-7-1(22)]." Additionally, consistent with the comments above, modify the first sentence of Section A.2 as follows: "The source includes Ispat Inland Inc. Plant ID 089-00316, an integrated steel mill and the following on-site contractors . . .."

Response 3:

The following changes have been made to condition A.2:

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

The source includes Mittal Steel USA Inc. - Indiana Harbor East **Plant ID 089-00316**, ~~is~~ an integrated steel mill ~~consists of a source with~~ **and the following** on-site contractors:

Comment 4 and 5:

4…Please include the following as Section A.2(b) and relabel the remaining subsections accordingly: "Fritz Enterprises (Plant ID 089-00465), the on-site contractor (a slag processing and coke screening facility), is located at East Chicago, Illinois. Additionally, include this on-site contractor in the Table included in Section A.2.

5…Section A.2 of the draft Permit contains duplicative provisions and inclusion of the following sentence in Section A.2 of the draft permit is confusing and incorrect: "Therefore, the term "source" in the Part 70 documents refers to both Ispat Inland Inc. and the on-site contractors as one source." Consistent with the comments above and our discussions with IDEM staff, rephrase the three

paragraphs following Section A.2(i) as follows:

IDEM has determined that Ispat Inland Inc. Plant ID 089-00316 and each of the on-site contractors are considered one source. Separate Part 70 permits will be issued to Ispat Inland Inc. Plant ID 089-00316 and each of the on-site contractors, solely for administrative purposes (including but not limited to certification purposes).

Response 4 and 5:

In addition to Fritz Enterprises Inc, Heritage Slag Products, LLC has been added. Lafarge Canada also requested a name change.

IDEM OAQ has also added language to state that Mittal Steel USA Inc. - Indiana Harbor East and on-site contractors can maintain separate reporting and compliance certification, however, 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, OAQ has decided to add condition A.2 to the first paragraph of Section A to clarify that the Part 70 Source Definition is not federally enforceable. Additionally the paragraph discussing common control was included in the Technical Support Document (TSD) and does not need to be included in the Part 70 Permit.

IDEM OAQ has made the following changes to Section A and Condition 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.

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

The source includes Mittal Steel USA Inc. - Indiana Harbor East Plant ID 089-00316, an integrated steel and the following on-site contractors:

(a) Mittal Steel USA Inc. - Indiana Harbor East (Plant ID 089-00316), the primary operation, is located at, 3210 Watling Street, East Chicago, Indiana and

(b) Fritz Enterprises Inc. (Plant ID 089-00465), the on-site contractor (an iron and steel recycling process and a coke screening plant), is located at 3210 Watling Street, East Chicago, Indiana

(~~b~~**c**) Beemsterboer Slag and Ballast Corp. (Plant ID 089-00356), the on-site contractor (a slag crushing and sizing operation), is located at 3210 Watling Street, East Chicago, Indiana;

(~~c~~**d**) East Chicago Recovery (Plant ID 089-00358), the on-site contractor (a briquetting facility), is located at 3236 Watling Street, East Chicago, Indiana.

(~~d~~**e**) Heckett MultiServ (Plant ID 089-00367), the on-site contractor (a slag and kish processing plant and scarfing operation), is located at 3236 Watling Street, East Chicago, Indiana;

(~~e~~**f**) Oil Technology (Plant ID 089-00369), the on-site contractor (a used oil recycling facility), is located at 3236 Watling Street, East Chicago, Indiana;

(~~f~~**g**) Mid Continent Coal and Coke (Plant ID 089-00371), the on-site contractor (a metallurgical coke separation facility), is located at 3236 Watling Street, East Chicago, Indiana;

(~~g~~**h**) Indiana Harbor Coke Company (IHCC) (Plant ID 089-00382), the on-site contractor (a heat recovery coal carbonization facility), is located at 3210 Watling Street, East Chicago, Indiana 46312;

(~~h~~**i**) Cokenergy, Inc.(Plant ID 089-00383), the on-site contractor (a heated gas steam from coal carbonization operation), is located at 3210 Watling Street, East Chicago, Indiana;

(~~i~~**j**) **LAFARGE NORTH AMERICA** ~~LaFarge Canada~~ (Plant ID 089-00458), the on-site contractor (a slag granulator and pelletizer operation), is located at 3210 Watling Street, East Chicago, Indiana

(k) Heritage Slag Products, LLC (Plant ID 089-00481), the on-site contractor (a slag crushing and sizing operation), is located at 3210 Watling Street, East Chicago, Indiana 46312

~~IDEM has determined that Ispat Inland, Inc. and each of the on-site contractors are under the common control of Ispat Inland Inc. These plants are considered one source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to both Ispat Inland, Inc. and the on-site contractors as one source~~

~~IDEM has determined that Ispat Inland, Inc. and each of the on-site contractors are under the common control of Ispat Inland Inc. These plants are considered one source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to both Ispat Inland, Inc. and the on-site contractors as one source.~~

Separate Part 70 permits will be issued to Mittal Steel USA Inc. - Indiana Harbor East and each on-site contractor, solely for administrative purposes. **The companies may maintain separate reporting and compliance certification.**

Company Name	**TV Permit Number**
Mittal Steel USA Inc. - Indiana Harbor East	089-6577- 00316
Fritz Enterprises Inc.	**089-20315-00465**
Beemsterboer Slag and Ballast Corp.	089-6580-00356
East Chicago Recovery	089-6583-00358
Heckett MultiServ	089-6581-00367
Oil Technology, Inc.	089-6579-00369
Mid Continent Coal and Coke	089-6582-00371
Indiana Harbor Coke Company	089-11311-00382
Cokenergy, Inc.	089-11135-00383
LAFARGE NORTH AMERICA ~~Lafarge Canada~~	089-14766-00458
Heritage Slag Products, LLC	**089-21048-00481**

Comment 6:

All other references to "source" in the draft permit, intending to reference "Ispat Inland Inc. Plant ID 089-00316" should be changed to "Ispat Inland Inc. Plant ID 089-00316" because T089-6577-00316 only regulates Ispat Inland Inc.'s Plant ID 089-00316 facilities, not the entire Source as described in Section A.2. This includes Sections A.3 and A.4, which are specific to Ispat Inland Inc. Plant ID 089-00316 only.

Response 6:

The following changes have been made to Conditions A.3 and A.4:

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

Mittal Steel USA Inc. - Indiana Harbor East (Plant ID 089-00316) consists of the following permitted emission units and pollution control devices:

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

~~This stationary source~~ **Mittal Steel USA Inc. - Indiana Harbor East (Plant ID 089-00316)** also includes the following insignificant activities, which are specifically regulated, as defined in 326 IAC 2-7-1(21):

Comment 7:

All language in the draft Permit that could impose compliance or reporting obligation on Ispat Inland Inc. Plant ID 089-00316 for the actions of on-site contractors must be deleted from the draft Permit.

Response 7:

See Response 1.

Comment 8:

(a) The references to "maximum capacity", "maximum production rate", "maximum throughput" (or otherwise stated maximum throughputs), "maximum heat input rate", "maximum combined heat input rate", "maximum annual capacity", and "maximum total heat input", in Facility Descriptions A.3(a); A.2(b)(1), (5), (7), and (8) *[reviewer note: assuming A.3 and not A.2 was the intention]*; A.3(3)(B); A.3(c); A.3(e); A.3(f)(3), (4), (5), and (6); A.3(g); A.3(h)(3) and (8); A.3(j); A.3(k); A.3(m); and A.3(n) should be modified to include "estimated" at the beginning of each phrase. Due to the age and historical pre-PSD changes to much of the original equipment, specific capacities cannot be easily established and must be estimated. Furthermore, because the equipment listed in these conditions does not have capacity limits, production limits, throughput limits, or a heat input rate limits, one should not be included in the Facility Descriptions.

(b) Correct the installation date included in Facility Description A.3(a)(2) to "1939" the year of installation of the No. 5 Blast Furnace.

(c) To provide an accurate description in Facility Description A.3(a)(2)(C), include "blast furnace" before "gas cleaning system."

(d) To provide an accurate original design and installed burner description in Facility Description A.3(a)(3)(B), change "with a maximum combined heat input rate of 227 MMBtu/hr" to "with an estimated maximum combined heat input rate of 293 MMBtu/hr."

(e) Correct the typographical error in Facility Description A.3(b) by modifying the description to reference "4,417,000 tons per year" rather than "4,417,00 tons per year."

(f) To provide an accurate description in Facility Description A.3(b)(1): (a) replace "6,061,920 tons of iron ore per year" with "7,704,971 tons of iron ore pellets per year"; (b) replace "8027 tons" with "8073 tons"; (c) replace "stored in six (6) storage bins with 1766 ton total capacity" with "stored in four (4) storage bins with 1314 tons total capacity"; (d) replace "stored in four (4) storage bins with 3300 ton total capacity" with "stored in six (6) storage bins with 4200 tons total capacity"; and (e) include "and flux handling" after "168-stockhouse pellet."

(g) To accurately describe the Coke Screening Operation in Facility Description A.3(b)(2), include the word "previously" before "identified as 169" and modify the last phrase in the first sentence as follows: "and an average screening capacity of 400 tons per hour." This change is necessary because "169" has since been assigned to a newer emissions unit.

(h) To provide an accurate description in Facility Description A.3(b)(3), replace "emissions controlled" with "blast furnace gas processed" and also replace "each with a maximum capacity of 1.15 MMBtu per hour exhausting" with "each with a 1.15 MMBtu per hour igniter capacity and the capability of flaring one-third of the maximum generated blast furnace gas."

(i) To provide an accurate description in Facility Description A.3(b)(5), replace "with a maximum combined heat input capacity of 953 MMBtu/hr with" with "with an estimated combined heat input capacity of 953 MMBtu/hr and" and include "a blast capacity increase and" after "allows for."

(j) To provide an accurate description in Facility Description A.3(b)(7), add "No. 4" after "transfer tower," and change "ES268" to "164."

(k) To provide an accurate description in Facility Description A.3(b)(8), change "ES269" to "169."

(l) To provide an accurate description in Facility Description A.3(d), delete "and 50,000 ton capacity storage pile" from the description. The reference to only this storage pile is misleading, since this storage pile was permitted in addition to the storage piles already in existence prior to the PCI facility. Since PCI shared all of the storage piles with the No. 4 AC Station, some of those shared piles continue to remain in use today. As a result, this storage pile should be included with the other fugitive emission sources in Section F of the draft Permit, as discussed below.

(m) To provide an accurate description in Facility Description A.3(d)(2), replace "132 tons" with "400 tons" since 132 tons per hour is the overall average of this 400 tons per hour cycling system. Also, replace "controlled by baghouse A to" with "with a baghouse to."

(n) To provide an accurate description in Facility Description A.3(d)(3), replace "System C-Flexiwall conveyor" with "System C- RC-2, RC-3, and RC-4 conveyors" and replace "controlled by baghouse C" with "with a baghouse to control emissions at transfer points."

(o) To provide an accurate description in Facility Description A.3(d)(4), delete "and 188, respectively."

(p) To provide an accurate description in Facility Description A.3(e)(1): (a) replace "truck and ladle hopper loading system having a maximum throughput" with "ladle additive truck hopper loading system having an estimated maximum throughput"; (b) delete "and ladle" from the second sentence of the description; and (c) insert the word "system" after "handling" in the third sentence of the description.

(q) To provide an accurate description in Facility Description A.3(e)(2): (a) delete "charging aisle" in the first sentence; (b) replace "a maximum capacity" with "an estimated maximum capacity" in the first sentence; and (c) add "from the hot metal station and charging aisle"

after “Captured emissions” in the second sentence of the description.

(r) To provide an accurate description in Facility Description A.3(e)(3): (a) replace “and alloy with a total maximum capacity” with “and alloy addition with a total estimated maximum capacity” in the first sentence of the description; (b) replace “1971” with “1970” in the third sentence of the description; and (c) replace “upgraded” with “replaced” in the last sentence of the description.

(s) To provide an accurate description in Facility Description A.3(e)(5): (a) rephrase the first sentence as follows: “One (1) Continuous casting operation consisting of slab casters, and three (3) torch cutoff machines.”; (b) rephrase the beginning of the second sentence as follows: “Leaded emissions from the casters . . ..”; and (c) rephrase the fourth and fifth sentences as follows: “Fugitive emissions from the casting operations exhaust through a roof monitor, identified as 158. This equipment was constructed in 1985 . . ..”

(t) To provide an accurate description in Facility Description A.3(e)(6), include the word “leaded” before “emissions controlled.”

(u) To provide an accurate description in Facility Description A.3(e)(7), insert “and drying” after “shroud preheating” and add an “s” to “Monitor.”

(v) To provide an accurate description in Facility Description A.3(f)(4) replace “alloy addition, and slag skimming with a total maximum capacity” with “flux and alloy additions, and slag skimming with a total estimated maximum capacity” and include “and modified in 1996” after “1977” in the last sentence of the description.

(w) To provide an accurate description in Facility Description A.3(f)(8), replace “One (1) argon stirring station” with “Two argon stirring stations.”

(x) To provide an accurate description in Facility Description A.3(g), the first sentence should be modified as follows: “No. 1 Lime Plant was constructed in 1973 with an estimated maximum capacity of 569,400 tons per year . . ..”

(y) To provide an accurate description in Facility Description A.3(h)(3), replace “a maximum annual capacity” with “an estimated maximum annual capacity” and delete the second sentence and amend the end of the first sentence as follows: “baghouse roof monitor (141), commencing operation in 1970 and upgraded in 1996.”

(z) To provide an accurate description in Facility Description A.3(h)(4), replace “1993” with “1989.”

(aa) To provide an accurate description in Facility Description A.3(h)(5), delete “regenerative horizontal” and “(in the regenerative mode)” and add “has one (1) or” before “two (2)” and change the remainder of the paragraph to read: “burners, with a 15 MMBtu per hour combined maximum heat input, and emissions uncontrolled exhausting through stack 140.” Please *see* permit amendment No. A 089-9155, issued January 7, 1998 for additional heat input limitations details.

(bb) To provide an accurate description in Facility Description A.3(h)(10), replace “Area” with “Shop” and include “(stack 142)” after “Monitor.”

(cc) To provide an accurate description in Facility Description A.3(i)(3), replace “(11) and (12)” with “(1) and (2).”

(dd) To provide an accurate description of actual installed burner capacity in Facility Description A.3(j)(1), replace “with a maximum heat input rate of 611” with “with an estimated maximum heat input rate of 720.”

(ee) Replace "and exhausting roof monitor 90" with "vented inside the building" in Section A.3(k)(1) because the Billet Inspection Shotblaster discharges inside the shop.

(ff) To provide an accurate description in Facility Description A.3(m)(1)(B), replace "through stack 81A" with "inside the building (open roof monitor – 81A)."

(gg) To provide an accurate description in Facility Description A.3(m)(2), change "1996" in the first phrase of the description to "1968."

(hh) As listed in Ispat's Title V application, to provide an accurate description in Facility Description A.3(m)(2)(A), replace "a maximum heat input of 74.9 MMBtu/hr" with "an estimated maximum heat input of 112.6 MMBtu/hr."

(ii) As listed in Ispat's Title V application, to provide an accurate description in Facility Description A.3(m)(2)(B), replace "with a maximum heat input of 112.6 MMBtu/hr, exhausting through stack 182A" with "with an estimated maximum heat input of 36 MMBtu/hr, exhausting inside the building (open roof monitor – 182A)." Also, delete "One (1) roll preheater and," since this unit is an insignificant activity of less than 10 MMBtu per hour.

(jj) To provide an accurate description in Facility Description A.3(m)(3), change "1990" in the first phrase of the description to "1955."

(kk) To provide an accurate description in Facility Description A.3(m)(4), change "1994" in the first phrase of the description to "1957."

(ll) To provide an accurate description in Facility Description A.3(m)(4)(A), replace "flame heating furnace with 139" with "reducing furnace with 193."

(mm) To provide an accurate description in Facility Description A.3(m)(4)(B), replace "radiant tube heater section" with "flame heater furnace."

(nn) To ensure an accurate description in Facility Description A.3(m)(4)(C), delete "(facility is presently decommissioned)." This facility has not yet been permanently shutdown.

(oo) To provide an accurate description in Facility Description A.3(m)(5)(A), replace "with a total maximum heat input of 85 MMBtu/hr" with "with an estimated total maximum heat input of 108 MMBtu/hr." The reheat section of the furnace was inadvertently not included in the Title V application.

(pp) To provide an accurate description in Facility Description A.3(n)(1), delete "nine (9) turbo blowers and five (5) electricity generators" from A.3(n)(1)(B) and include same in a new description A.3(n)(1)(C).

(qq) To provide an accurate description in Facility Description A.3(n)(2), replace "each with a maximum heat input of 520 MMBtu/hr" with "each with an estimated maximum heat input of 520 MMBtu/hr" and rephrase the second sentence of the description as follows: "The boilers produce steam, which is used in three turbo blowers to produce blast air, at generators to produce power, and for general plant use."

(rr) To provide an accurate description in Facility Description A.3(o)(1), include "(44) after "pugh ladle drying."

(ss) To provide an accurate description in Facility Description A.3(p), Storage Vessels, replace A.4(p)(1) through (18) with the following;

(1) One (1) 21,380 gallon tank (T19K1) containing Diesel No. 2, located at the "E"

Yard – Internal Logistics, constructed prior to 1972.

(2) One (1) 21,380 gallon tank (T-8H1) containing Diesel No. 2, located at the "B" Yard – 2 BOF, constructed prior to 1972.

(3) One (1) 10,000 gallon tank (T20K-1) containing Diesel No. 2, located at the Main Shop Fueling Station – Internal Logistics, constructed in 1997.

(4) One (1) 8,000 gallon tank (T02E-1) containing Diesel No. 2, located south of the bar company scrap yard - 12" Bar Mill constructed in 1999.

(5) One (1) 7,500 gallon tank (T1G-1) containing Diesel No. 2, located north of the Electric Furnace Billet Caster constructed in 1999.

(6) One (1) 6,000 gallon tank (T25E-1) containing Diesel No. 2, located at the No. 7 Blast Furnace Emergency Pump House, constructed in 1994.

(7) One (1) 5,000 gallon tank (T17P-1) containing Diesel No. 2, located at the 80" Hot Strip Mill coil carrier fuel station, constructed in 1994.

(8) One (1) 4,200 gallon tank (T10-200) containing Diesel No. 2, located at the No. 3 Cold Strip East bulk oil storage area constructed in 1970.

(9) One (1) 3,355 gallon tank (T18E-1) containing Diesel No. 2, located at the #4 BOF Mobile Equipment Shop, constructed in 1994.

(10) Two (2) 3,000 gallon tanks (T10-232a & T10-232b) containing Power Clean, located at the No. 3 Cold Strip East, Nos. 4 and 5 Hydraulic System, constructed in 1970.

(11) One (1) 130,000 gallon tank (T-17F1) containing Reclaimed oil, located at the Lime Plant, constructed in 1973.

(12) One (1) 1,016,000 gallon tank (T-6E1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1992.

(13) One (1) 1,016,000 gallon tank (T-6F1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(14) One (1) 1,016,000 gallon tank (T-6F2) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(15) One (1) 500,000 gallon tank (T-6F3) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1975.

(16) One (1) 100,000 gallon tank (T-02F1) containing #6 fuel oil, located at the 12" Bar Mill, constructed in 1977.

(17) Two (2) 30,000 gallon tanks (T11-12a & T11-12b) containing regenerated Hydrochloric Acid located north of bulk storage building No. 3 Cold Strip West, designated as #1 elevated tank and #2 elevated tank, constructed in 1970.

(18) Two (2) 30,000 gallon tanks (T11-12c & T11-12d) containing regenerated Hydrochloric Acid located west of bulk storage building No. 3 Cold Strip West, designated as Tank #4 and Tank #, constructed in 1999.

(tt) Facility Description A.3(q)(11) should reference "boilers" rather than "oilers."

(uu) The Facility Descriptions included in Section D should be consistent with the descriptions included in Section A.3 of the draft Permit and with Ispat's comments regarding same.

Response 8:

The maximum capacities listed in the emission unit descriptions in A.3 and D section description boxes are used by IDEM OAQ in order to completely describe the units and to assess the source's potential to emit. While this information is descriptive and does not constitute enforceable conditions, the process specific emissions limitations identified in Section D of the permit are often determined from this information. Physical changes or changes in the method of operation that changed the capacity may also increase the emission unit's potential to emit. Documenting the capacity will assist both the Permittee and the IDEM in evaluating whether such a change requires a pre-construction permit or other approval. If these capacities are not accurate, the source is required to notify IDEM OAQ since this may change the applicability of the air permitting rules, and may result in an amendment or modification to the permit. The following changes have been made to A.3 and D section description boxes as a result of this comment:

(a) No. 5 and 6 Blast Furnace processes, with a combined **estimated** *maximum production rate of 2,506,000 tons per year of hot iron metal, comprised of the following facilities, process equipment and operational practices:*

(1) One (1) Pulverized Coal Storage Bin with baghouse H (191), having a 400 ton storage capacity, **estimated** maximum throughput of 325,000 ton**s** per year of pulverized coal, and a flow rate of 3500 acfm, exhausting through stack 191 and constructed in 1991.

(2) No. 5 Blast Furnace, installed in ~~1942~~, **1939** consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 5 Blast Furnace Stoves (3 units) with a**n estimated** maximum combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 5 Blast Furnace and exhausting combustion emissions through stack 5.

(C) No. 5 Blast Furnace with an integral **blast furnace** gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 5 Blast Furnace Stoves.

(D) No. 5 Blast Furnace Casthouse with casting emissions controlled by two (2) No. 5 Blast Furnace Casthouse Collection System Scrubbers having a flow rate of 40,000 acfm, exhausting through stack 1 with construction upgrades in 1986 and 1991.

(E) One (1) No. 5 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(3) No. 6 Blast Furnace, installed in 1942, consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 6 Blast Furnace Stoves (4 units) with a**n estimated** maximum combined heat input rate of ~~227~~ **293** MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 6 Blast Furnace and exhausting combustion emissions through stack 6.

(C) No. 6 Blast Furnace with an integral gas cleaning system and blast

furnace gas combusted at either No. 2AC station or the No. 6 Blast Furnace Stoves.

(D) No. 6 Blast Furnace Casthouse with casting emission controlled by No. 6 Blast Furnace Casthouse Collection System Scrubber having a flow rate of 40,000 acfm, exhausting through stack 2, with a construction upgrade in 1986 on this equipment.

(E) No. 6 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(b) No. 7 Blast Furnace process is comprised of the following facilities, process equipment and operation practices:
(Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for the maximum production rate to increase to 4,417,00**0** tons per year of molten metal)

(1) Raw material handling and stockhouse material handling for receiving, storage and delivery of blast furnace raw material. The handling operation has a**n estimated** maximum throughput of ~~6,061,920~~ **7,704,971** tons of iron ore **pellets** per year; stored in four (4) storage bins with **8073**~~27~~ tons total capacity; 1,514, 604 tons of coke per year, stored in ~~six~~ **four** (~~6~~**4**) storage bins with ~~1766~~**1314** ton**s** total capacity; and 1,082,736 tons of flux and miscellaneous material per year, stored in ~~four~~ **six** (~~4~~**6**) storage bins with ~~33~~**42**00 ton**s** total capacity. Emissions are controlled by two (2) baghouses: (1) identified as 168-stockhouse pellet **and flux handling** baghouse, having a flow rate of 82,500 acfm and (2) identified as 172-stockhouse coke handling baghouse having a flow rate of 27, 500 acfm.

(2) Coke screening operation with emissions controlled by a baghouse, **previously** identified as 169, having a flow rate of 47,116 acfm and a**n average** screening capacity of 400 tons per hour. (This equipment is not currently operating)

(3) One (1) blast furnace, identified as No. 7, constructed in 1980 with ~~emissions~~ **blast furnace gas processed** ~~controlled~~ by a gas cleaning system and equipped with three (3) flares, ~~each with a maximum capacity of 1.15 MMBtu per hour exhausting~~ **each with a 1.15 MMBtu per hour igniter capacity of flaring one-third of the maximum generated blast furnace gas** through stack 195.

(4) No. 7 Blast Furnace Casthouse constructed in 1980 with casting emissions controlled by two (2) baghouses: identified as 166 (West baghouse) having a flow rate of 500,000 acfm; and 167 (East baghouse) having a flow rate of 300,000 acfm. Emissions from No. 7 blast furnace casthouse are also controlled by trough and runner covers and hoods over the tap holes and pugh ladle addition points.

(5) No. 7 Blast Furnace stoves (3 units) using blast furnace gas and natural gas as fuel with a a**n estimated** maximum combined heat input capacity of 953 MMBtu/ hr ~~with~~ **and** emissions exhausting through stack 170. Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for **a blast capacity increase and** the construction of a fourth (4th) stove.

(6) One (1) Casthouse Roof Monitor 171.

(7) One (1) coke transfer tower **(No.4)**, identified as ~~ES268~~ **164**, installed in 1997, with a a**n estimated** maximum throughput of 4020 tons of dry coke per day, enclosed and controlled by one (1) baghouse, and exhausting inside the tower.

(8) One (1) coke transfer point, identified as ~~ES269~~ **169**, installed in 1997, with a a**n estimated** maximum throughput of 4020 tons of dry coke per day, enclosed and

controlled ~~by one (1) baghouse, exhausting inside the tower~~.

(9) Slag pits

(c) One (1) Sinter Plant, constructed in 1959, with a a**n estimated** *maximum raw material usage of 1.4 million tons per year comprised of the following facilities, process equipment, and operational practices:*

(1) Raw material handling and blend site.

(2) One (1) sinter plant windbox, controlled by the main baghouse with emissions exhausting through stack 7.

(3) One (1) sinter plant discharge end, controlled by the discharge end baghouse, and one (1) cooler station, partially controlled by the discharge end baghouse, with emissions exhausting through stack 8, installed in 1959.

(4) One (1) sinter plant upper screening station, with conveyors, screen hoods, and duct system routed to and controlled by the upper screening station baghouse with emissions exhausting through stack 11. This equipment was constructed in 1998.

(5) Sinter loading, unloading, and transfer operations***.***

(d) One (1) pulverized coal injection (PCI) system with a maximum capacity of 132 tons per hour for Nos. 5, 6 and 7 blast furnaces, constructed in 1991, comprised of the following facilities, process equipment, and operational practices:

(1) Raw coal handling, including rail car unloading facilities and 50,000 ton capacity storage pile (stack 192).

(2) System A- RC-1 and RC-2 conveyors with a maximum throughput of ~~132~~ **400** tons per hour, used to move coal to raw coal storage bins, ~~controlled by~~ **with a** baghouse ~~A~~ to control emissions at transfer points and exhausting through stack 185.

(3) System C- ~~Flexiwall~~ **RC-2, RC-3 and RC-4** conveyor**s** and two (2) Raw Coal Storage Bins with a storage capacity of 750 tons each, ~~controlled by~~ **with a** baghouse ~~C~~ **to control emissions at transfer points** and exhausting through stack 186.

(4) System D and E-Two (2) 66 ton per hour Pulverizers, with a recovery cyclone and baghouse D and E in series on each unit exhausting through stack 187**,** ~~and 188, respectively.~~

(5) System F and G- Two (2) 66 ton per hour Conveyors to two (2) Pulverized Coal Storage Bins with a total storage capacity of 30,000 cubic feet, each controlled by a baghouse F and G, exhausting through stack 189 and 190, respectively.

(e) The No. 2 Basic Oxygen Furnace (BOF) Shop, comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling, ~~truck and~~ ladle **additive truck** hopper loading system having a**n estimated** maximum throughput of 328,000 tons per year of alloy and flux. Emissions from the truck ~~and ladle~~ hopper controlled by a baghouse, which has a flow rate of 75,000-acfm exhausting through stack 150. Emissions from the alloy and flux storage and handling **system** are controlled by a baghouse, which has a flow rate of 50,000-acfm, exhausting through stack 151. Both baghouses were constructed in 1974.

(2) One (1) Hot metal station containing ~~charging aisle,~~ reladling, desulfurization, and slag skimming operations having a**n estimated** maximum capacity of 4,029,600 tons of hot metal per year. Captured emissions **from the hot metal station and charging aisle** are controlled by a baghouse having a flow rate of 360,000-acfm, exhausting through stack 152. Original construction was 1974 and an upgrade was completed in August 1994 as part of a consent decree.

(3) Two (2) BOFs, identified as No. 10 and No. 20, and operations including charging, oxygen blowing, tapping, and alloy **addition** with a total **estimated** maximum capacity of 4,543,600 tons of hot metal and scrap per year. Captured emissions controlled by two (2) off-gas scrubber systems with flares having a flow rate of 1,500,000-acfm each, exhausting through flare stacks 147 and 148. Construction commenced on this equipment in 197~~1~~**0**. Uncaptured emissions exhausting through roof monitor 153 and charging and miscellaneous furnace emissions exhausting through a secondary ventilation scrubber having a flow rate of 194,000-acfm, exhausting through stack 149. The Off-gas scrubber systems were constructed in 1974 and the Secondary Vent scrubber was ~~upgraded~~ **replaced** in 2003.

(4) One (1) ladle metallurgy facility station consisting of alloy addition, electric arc reheat, slag skimming, and raw material handling specifically for the metallurgy station with a**n estimated** maximum throughput of 4,029,600 tons per year of steel. Captured emissions are controlled by a baghouse having a flow rate of 135,000-acfm, exhausting through stack 154. This equipment was constructed in 1985.

(5) One (1) Continuous casting operations consisting of ~~a~~ slab caster**s**, and ~~two~~ **three** (~~2~~**3**) torch cutoff machines. **Leaded** ~~E~~**e**missions from the caster**s** exhaust through the caster fume baghouse, which has a flow rate of 171,000 acfm, exhausting through stack 159. Steam from the water spray cooling exhausts through three (3) vents along the caster, identified as stacks 160, 161, and 162. Fugitive emissions from the ~~casthouse~~ **casting operations** exhaust through a roof monitor, identified as 158. This equipment was constructed in 198~~9~~**5**. (Bloom caster at this site is permanently shutdown)

(6) A tundish dump and repair station with **leaded** emissions controlled by a baghouse, which has a flow rate of 50,000 acfm, exhausting through stack 156. This equipment was constructed in 1989.

(7) Miscellaneous natural gas combustion used for ladle preheating, exhausting through stack 157, and tundish and ladle shroud preheating **and drying**, exhausting through No.2 BOF Shop Roof Monitor**s** 155.

(8) Slag skimming into slag pots.

(f) No.4 Basic Oxygen Furnace (BOF) comprised of the following facilities, process equipment, and operational practices:

(1) Flux, alloy and waste oxide briquettes (WOB) unloading, hopper house and storage/handling facility.

(2) Scrap metal unloading/storage (scrap yard) and scrap metal charging box.

(3) Two (2) Hot metal transfer and desulfurization operations having a**n estimated** maximum capacity of 4,222,320 tons of hot metal per year with captured emissions controlled by two (2) baghouses having flow rates of 190,000 and 220,000 acfm, exhausting through stacks 26 and 27. This equipment was constructed in 1977.

(4) Two (2) BOFs, identified as No. 50 and No. 60 and operations including charging, blowing, tapping, **flux and** alloy addition**s**, and slag skimming with a total **estimated** maximum capacity of 5,676,366 tons of hot metal and scrap per year with uncaptured emissions exhausting through a roof monitor (stack 29), and captured emissions controlled by a four (4) off-gas scrubber system, exhausting through stack 38. This equipment was constructed in 1966. Charging, tapping, and miscellaneous furnace emissions are controlled by a secondary ventilation baghouse having a flow rate of 600,000 acfm, exhausting through stack 37. This equipment was constructed in 1977 **and modified in 1996**.

(5) Raw material handling system for the RHOB facility, including hopper house, alloy and flux storage bins having a**n estimated** maximum throughput of 4,700,000 tons per year and dust emissions controlled by a baghouse having a flow rate of 48,100 acfm and exhausting through stack 33.

(6) One (1) RHOB vacuum degasser with natural gas-fired flare for exhaust gas control with a**n estimated** maximum throughput of 4,686,600 tons/year of steel, exhausting through stack 32. This equipment was constructed in 1987.

(7) Ladle and tundish preheaters (stack 36).

(8) ~~One~~ **Two** (~~1~~**2**) argon stirring station**s** and one (1) continuous caster with tundish, caster mold, and casting machine with cutoff, with steam vents exhausting through stacks 24 and 25.

(9) Torch cutoff exhausting into the building (stack 31).

(10) Maintenance and miscellaneous operations associated with the BOF.

(11) Furnace Additives Transfer House Baghouses, exhausting inside the buildings (stacks 28 and 35).

(12) Slag dumping.

*(g) No. 1 Lime Plant was constructed in 1973 with a***n estimated** *maximum capacity of 5~~0~~**6**9,400 tons per year of lime comprised of the following facilities, process equipment, and operational practices:*

(1) Limestone unloading, storage and screening area.

(2) Two (2) Limestone preheaters, two (2) rotary kilns with a**n estimated** maximum heat input rate of 207 MMBtu/hr fueled by natural gas or residual fuel oil, with exhaust from kilns routed back to preheaters and then to a set of multicyclones. The emissions from the multicyclones are controlled by two (2) baghouses exhausting through stacks 45 and 49.

(3) Dust fines are sent to a dust bin, with emissions controlled by a baghouse and exhausting through stack 46.

(4) Ten (10) storage silos receive a**n estimated** maximum of 569,400 tons per year of finished lime, with fines controlled by lime handling baghouses and exhausting through stack 47.

(5) Fugitive control project including loadout spout on rejection bin controlled by existing kiln baghouse, preheater area enclosure around two (2) kiln feed hood/ ram loadout dribbles, preheater area loading spouts for truck loading with displaced air controlled by existing kiln baghouse and ten (10) loading spouts with

emissions controlled by baghouse and truck loadout area with exhaust controlled by loadout baghouse and exhausting through stack 48. This equipment was upgraded in 1997.

(h) No. 1 Electric Arc Furnace comprised of the following facilities, process equipment, and operational practices:

(1) Bulk alloy handling: Raw material unloading, piling, and transporting of scrap metal, fluxes, and alloys.

(2) Raw material charging to the electric arc furnace.

(3) One (1) electric arc furnace with excentric bottom tapping (EBT), having a**n estimated** maximum annual capacity of 975,000 tons with emissions controlled by a baghouse having a flow rate of 500,000 acfm exhausting through **baghouse roof monitor** ~~stack~~ **(**141**)**~~.~~**, commencing operation in 1970** ~~This equipment was constructed in 1989~~ and upgraded in 1996.

(4) One (1) ladle metallurgical station constructed in 19**89**~~93~~ with a maximum annual capacity of 975,900 tons with emissions controlled by a baghouse having a flow rate of 40,000 acfm exhausting through stack 143.

(5) Five (5) ~~regenerative horizontal~~ natural gas ladle preheaters constructed in 1990, each ~~with~~ **has one (1) or** two (2) **burners** ~~7.5~~ **with a 15** MMBtu per hour **combined maximum heat input and** ~~(in the regenerative mode) burners with~~ emissions uncontrolled exhausting through stack 140.

(6) One (1) continuous casting and cooling operations exhausting through stacks 144 and 145, respectively.

~~(7) One (1) vacuum tank degasser with maximum capacity of 111.3 tons of steel per hour, exhausting to stack 208. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)~~

~~(8) One (1) natural gas fired boiler, with **an estimated** maximum capacity of 41.5 MMBtu per hour, exhausting to stack 207. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)~~ *(see Response 107 regarding removal of (h)(7) and (h)(8))*

(~~9~~**7**) Slag handling operations.

(~~10~~**8**) EAF **Shop** ~~Area~~ Roof Monitor **(stack 142)**.

(i) Direct Reduced Iron (DRI) storage and conveying system constructed in 2001, comprised of the following facilities, process equipment, and operational practices:

(1) One (1) enclosed truck/trailer unloading area identified as 213 with a maximum throughput of 400,000 tons per year of DRI.

(2) A DRI conveyor system consisting of:

(A) One (1) 20,000 cu. ft. capacity enclosed DRI storage silo with excess air vented through the roof and then through one of the bin vents.
(B) One (1) horizontal trough belt stocking conveyor.
(C) Multiple Delivery Conveyors.

(3) Emission control system for (1~~1~~) and (~~1~~2) to remove particulate matter consisting of:

(A) Bin Vent Filter No. 1 (210)
(B) Bin Vent Filter No. 2 (211)
(C) Bin Vent Filter No. 3 (212)

(j) 80" Hot Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) No. 4 Walking Beam Furnace, with a**n estimated** maximum heat input rate of ~~611~~ **720** MMBtu/hr, equipped with low NOx burners and using natural gas as fuel, exhausting through stack 101 and 102, installed in 2001.

(2) One (1) No. 5 Walking Beam Furnace, with a**n estimated** maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 107, installed in 1995.

(3) One (1) No. 6 Walking Beam Furnace, with a**n estimated** maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 108, installed in 1995.

(4) One (1) Hot Rolling Mill Operation, including roughing mill with cooling water spray, crop shear and finishing stands exhausting to roof monitor 109.

(k) 12" Bar Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) Billet Inspection Line Shotblaster, installed in 1994 with emissions controlled by a baghouse having a**n estimated** maximum flow rate of 5000 acfm ~~and exhausting to roof monitor 90~~ **vented inside the building**.

(2) One (1) Billet Grinding installed in 1977 exhausting through stack 87.

(3) One (1) natural gas fired Billet Reheat Furnace, installed in 1977, having a**n estimated** maximum heat input of 375 MMBtu/hr, exhausting through stack 89

(4) One (1) 23 Stand Rolling Mill exhausting to roof monitor 88.

(l) No. 3 Cold Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) No. 4 Pickling Line, constructed in 1958, including acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 178.

(2) No. 5 Picking Line, including scale breaker mill, acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 176.

(3) 56 inch Tandem Mill (4 Stands) controlled by a mist eliminator exhausting through stack 177.

(4) 80 inch Tandem Mill (5 Stands) controlled by a mist eliminator exhausting through stack 175.

(5) Temper Mill No. 28 exhausting through stack 180.

(6) Temper Mill No. 29 exhausting through stack 181.

(m) Coated Products comprised of the following facilities, process equipment, and operational practices:

(1) No. 3 Galvanizing Line constructed in 1955, including:

(A) One (1) natural gas fired Non-Oxidizing Furnace with a**n estimated** maximum heat input of 62 MMBtu/hr, equipped with recuperators waste gas burners exhausting through stack 81.

(B) One (1) natural gas fired reducing furnace with a**n estimated** maximum heat input of 12.8 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented **inside the building (open roof monitor-81A)** ~~through stack 81A~~.

(2) No. 5 Galvanizing Line constructed in 19~~96~~**68**, including:

(A) One (1) natural gas fired Radiant tube reducing furnace utilizing recuperative radiant tube burners with a a**n estimated** maximum heat input of ~~74.9~~**112.6** MMBtu/hr, exhausting through stack 182.

(B) One ~~(1) roll preheater and one~~ (1) natural gas fired Galvanneal Furnace with a**n estimated** maximum heat input of ~~112.6~~**36** MMBtu/hr, exhausting ~~through stack~~ **inside the building (open roof monitor)-**182A.

(3) No. 4 Aluminizing Line constructed in 19~~90~~**55**, including:

(A) One (1) natural gas fired Oxidizing Furnace with a**n estimated** maximum heat input of 27 MMBtu/hr exhausting through stack 84.

(B) One (1) natural gas fired 4-line radiant tube reducing furnace section with a**n estimated** maximum heat input of 19.14 MMBtu/hr, equipped with low NOx twin regenerative burners, exhausting through stack 84.

(C) hot dip Al/Si Pot, roll preheater and premelt furnace.

(4) No. 1 Normalizer constructed in 19~~94~~**57**, including:

(A) One (1) natural gas fired ~~flame heating~~ **reducing** furnace with ~~139~~ **193** natural gas fired Eclipse SER burners with a total heat input of 31.652 MMBtu/hr exhausting through stack 183**.**

(B) One (1) natural gas fired ~~radiant tube heater section~~ **flame heater furnace** with a**n estimated** maximum heat input of 28 MMBtu/hr annealing furnace exhausting through stack 183

(C) One (1) acid cleaning tank using hydrochloric acid and one (1) cascade rinse tank with emissions controlled by a fume scrubber and exhausting through stack 184 ~~(facility is presently decommissioned)~~.

(5) No. 3 Continuous Anneal Line constructed in 1982, including:

(A) One (1) natural gas fired Annealing Furnace and One (1) natural gas fired Age Furnace with a**n estimated** total maximum heat input of ~~85~~ **108** MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented through stack 173.

(B) One (1) acid cleaning tank using hydrochloric acid with emissions controlled by a fume scrubber and exhausting through stack 174.

(6) Batch Anneal Facilities including:

(A) No. 5 Batch Anneal constructed in 1958, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with a**n estimated**

maximum heat input of 136 MMBtu/hr exhausting through stack 112.

(B) No. 6 Batch Anneal constructed in 1970, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with a**n estimated** maximum heat input of 205 MMBtu/hr exhausting through stack 113.

(n) Utilities comprised of the following facilities, process equipment, and operational practices:

(1) No. 2 AC Station including:

(A) Three (3) Boilers identified as 211-213, fired by natural gas and blast furnace gas from No. 5 and No. 6 blast furnaces:

(i) Boiler 211 with a**n estimated** maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 125 and 126.

(ii) Boiler 212 with a**n estimated** maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 127 and 128.

(iii) Boiler 213 with a**n estimated** maximum heat input of 468 MMBtu/hr, installed in 1949 exhausting through stacks 129 and 130.

(B) Two (2) Blast Furnace Gas Flares to burn excess blast furnace gas from No. 5 and No. 6 Blast Furnaces exhausting through stack 131.~~, nine (9) turbo blowers and five (5) electricity generators.~~

(C) Nine (9) turbo blowers and five (5) electricity generators.

(2) No. 5 Boilerhouse installed in 1976, including Boilers 501-503 fired by blast furnace gas from No. 7 blast furnace and mixed gas, each with a**n estimated** maximum heat input of 520 MMBtu/hr exhausting through stack 134. The boilers produce steam, which is **used in three turbo blowers to produce blast air, at generators to produce electrical power, and for general plant use.** ~~sent through three (3) turbo blowers and a cooling tower for plant use and for the production of blast air and electrical power generation.~~

(o) Shops comprised of the following facilities, process equipment, and operational practices:

(1) Mold Foundry Building: Pugh Ladle Car Preparation, dekishing, debricking and drying fired by natural gas (44) and Pugh ladle lancing fired by natural gas with emissions controlled by former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle pigging emissions resulting from the adjacent contractor's operation.

(2) No. 6 Roll shop for 12 inch bar mill including shotblaster with emissions controlled by a baghouse and exhausting through stack 200.

(3) Electric Shop including shotblaster with emissions controlled by a baghouse and exhausting through stack 201, blaster baghouse unloading, paint booth, varnish dip tanks and undercutting booth.

(4) No. 4 Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 203, Wheelabrator shotblaster with emissions controlled by a baghouse and exhausting through stack 204.

(5) No. 4 A Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 205 and Pangborn shotblaster with emissions controlled by a baghouse and exhausting through stack 206.

(6) No. 5 Roll Shop.

(7) Mobile Equipment shop including refrigerant recovery and parts cleaning.

(8) Equipment Repair Shop including Machine Shop (Plant 2).

(9) Mason Building Shop.

(10) Refrigeration Shop.

(11) Fabrication and Repair Shop (Plant 1).

(p) Storage Vessels:

~~(1) Two (2) 5,000 gallon tanks (T-1) containing raw 30% hydrochloric acid (HCl) constructed in 1990.~~

~~(2) One (1) 135,000 gallon tank (T-2) for recycled oil (used for fuel) constructed in 1973.~~

~~(3) One (1) 20,000 gallon tank (T-3) containing #2 fuel oil constructed in 1972.~~

~~(4) Two (2) 30, 790 gallon tanks (T-4) containing 20% regenerated HCl constructed in 1990.~~

~~(5) Two (2) 30,560 gallon tanks (T-5) containing 20% regenerated HCl constructed in 1990.~~

~~(6) One (1) 100,000 gallon tank (T-6) containing #2 fuel oil, designated as No. 23 tank constructed in 1978.~~

~~(7) Two (2) 12,500 gallon tanks (T-7 and T-8) containing #6 fuel oil constructed in 1970.~~

~~(8) One (1) 20,000 gallon tank (T-9) containing #6 fuel oil constructed in 1981.~~

~~(9) One (1) 1,000,000 gallon tank (T-10) containing #6 fuel oil, designated as No.1 tank constructed in 1992.~~

~~(10) One (1) 100,000 gallon tank (T-11) containing #6 fuel oil, designated as No. 17 tank constructed in 1972. This tank no longer in use.~~

~~(11) One (1) 114,300 gallon tank (T-12) containing #6 fuel oil, designated as No. 18 tank constructed in 1977.~~

~~(12) One (1) 62,208 gallon tank (T-13) containing #6 fuel oil, designated as No. 19 tank constructed in 1965.~~

~~(13) One (1) 1,000,000 gallon tank (T-14) containing #6 fuel oil, designated as No. 2 tank constructed in1976.~~

~~(14) One (1) 500,000 gallon tank (T-15) containing #6 fuel oil, designated as No. 22 tank constructed in 1977.~~

~~(15) One (1) 1,000,000 gallon tank (T-16) containing #6 fuel oil, designated as No. 3 tank constructed in 1976.~~

~~(16) One (1) 500,000 gallon tank (T-17) containing #6 fuel oil, designated as No. 4 tank constructed in1972.~~

~~(17) One (1) 12,000 gallon tank (T-18) containing bunker oil (fuel oil) constructed in 1970.~~

~~(18) One (1) 20,000 gallon tank (T-19) containing reclaim oil constructed in 1970.~~

(1) One (1) 21,380 gallon tank (T19K1) containing Diesel No. 2, located at the "E" Yard – Internal Logistics, constructed prior to 1972.

(2) One (1) 21,380 gallon tank (T-8H1) containing Diesel No. 2, located at the "B" Yard – 2 BOF, constructed prior to 1972.

(3) One (1) 10,000 gallon tank (T20K-1) containing Diesel No. 2, located at the Main Shop Fueling Station – Internal Logistics, constructed in 1997.

(4) One (1) 8,000 gallon tank (T02E-1) containing Diesel No. 2, located south of the bar company scrap yard - 12" Bar Mill constructed in 1999.

(5) One (1) 7,500 gallon tank (T1G-1) containing Diesel No. 2, located north of the Electric Furnace Billet Caster constructed in 1999.

(6) One (1) 6,000 gallon tank (T25E-1) containing Diesel No. 2, located at the No. 7 Blast Furnace Emergency Pump House, constructed in 1994.

(7) One (1) 5,000 gallon tank (T17P-1) containing Diesel No. 2, located at the 80" Hot Strip Mill coil carrier fuel station, constructed in 1994.

(8) One (1) 4,200 gallon tank (T10-200) containing Diesel No. 2, located at the No. 3 Cold Strip East bulk oil storage area constructed in 1970.

(9) One (1) 3,355 gallon tank (T18E-1) containing Diesel No. 2, located at the #4 BOF Mobile Equipment Shop, constructed in 1994.

(10) Two (2) 3,000 gallon tanks (T10-232a & T10-232b) containing Power Clean, located at the No. 3 Cold Strip East, Nos. 4 and 5 Hydraulic System, constructed in 1970.

(11) One (1) 130,000 gallon tank (T-17F1) containing Reclaimed oil, located at the Lime Plant, constructed in 1973.

(12) One (1) 1,016,000 gallon tank (T-6E1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1992.

(13) One (1) 1,016,000 gallon tank (T-6F1) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(14) One (1) 1,016,000 gallon tank (T-6F2) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1976.

(15) One (1) 500,000 gallon tank (T-6F3) containing #6 fuel oil, located at Plant #1 Fuel Oil, constructed in 1975.

(16) One (1) 100,000 gallon tank (T-02F1) containing #6 fuel oil, located at the 12" Bar Mill, constructed in 1977.

(17) Two (2) 30,000 gallon tanks (T11-12a & T11-12b) containing regenerated Hydrochloric Acid located north of bulk storage building No. 3 Cold Strip West, designated as #1 elevated tank and #2 elevated tank, constructed in 1970.

(18) Two (2) 30,000 gallon tanks (T11-12c & T11-12d) containing regenerated Hydrochloric Acid located west of bulk storage building No. 3 Cold Strip West, designated as Tank #4 and Tank #, constructed in 1999.

~~*(q) A continuous coating line (CCL No. 6) with a maximum throughput of 600,000 tons per year, comprised of the following facilities, process equipment, and operational practices: (This equipment has not been constructed*~~ *(see Response 107 regarding deletion)*

~~(1) One (1) electrical resistance welder, exhausting inside the building.~~

~~(2) One (1) alkali cleaning system, consisting of electrolytic and sodium hydroxide dunk tanks, and a brush scrubbers rinse tank, and exhausting inside the building.~~

~~(3) One (1) natural gas-fired strip dryer, identified as 250, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.~~

~~(4) One (1) natural gas-fired radiant tube furnace heating section, identified as 251A, with a heat input capacity of 102.05 million Btu per hour, and exhausting through one (1) stack, identified as 251.~~

~~(5) One (1) natural gas-fired radiant tube furnace soaking section, identified as 251B, with a heat input capacity of 5.4 million Btu per hour, and exhausting through one (1) stack, identified as 251.~~

~~(6) Two (2) zinc pots, one (1) aluminum pot, one (1) zinc premelt pot, and one (1) aluminum zinc premelt pot, with electric induction heating for each pot, and all exhausting inside the building.~~

~~(7) One (1) natural gas-fired galvanneal soaking furnace, identified as 252, with a heat input capacity of 6.5 million Btu per hour, and exhausting inside the building.~~

~~(8) One (1) natural gas-fired strip dryer, identified as 253, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.~~

~~(9) One (1) chem-treat roll coating system with one (1) natural gas-fired strip dryer, identified as 254, with a heat input capacity of 2.05 million Btu per hour, and exhausting inside the building.~~

~~(10) One (1) phosphate roll coating system with one (1) natural gas-fired infra-red furnace, identified as 255, with a heat input capacity of 9.36 million Btu per hour, and exhausting inside the building.~~

~~(11) Three (3) electrostatic **b**oilers exhausting inside the building.~~

~~(12) Natural gas-fired space heaters, identified as 256, with a heat input capacity of 77.52 million Btu per hour, and exhausting through one (1) stack, identified as 256.~~

~~(13) One (1) natural gas-fired boiler, identified as 257, with a heat input capacity of 22.95 million Btu per hour, and exhausting through one (1) stack, identified as 257.~~

Comment 9:

Include Ispat's fugitive sources in a new Section A.5 as follows:

A.5 Fugitive Dust Sources

Ispat Inland Inc. Plant ID 089-00316 also includes Fugitive Dust Sources consisting of, but not limited to the following:

(1) Paved Roads and Parking Lots

(2) Unpaved Roads and Parking Lots

(3) Batch Transfer-Loading and Unloading Operations

(4) Continuous Transfer In and Out of Storage Piles

(5) Batch Transfer Operations-Slag and Kish Handling

(6) Wind Erosion from Storage Piles and Open Areas

(7) In Plant Transfer by Truck or Rail

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

(9) Material Processing Facility (except Crusher Fugitive Emissions)

(10) Crusher Fugitive Emissions

(11) Material Processing Facility Building Openings

(12) Dust Handling Equipment

Renumber the existing Section A.5 as A.6.

Response 9:

IDEM OAQ agrees to the change. Remaining Section A conditions have been appropriately renumbered.

A.5 Fugitive Dust Sources

Ispat Inland Inc. Plant ID 089-00316 also includes 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 (except Crusher Fugitive Emissions)

(j) Crusher Fugitive Emissions

(k) Material Processing Facility Building Openings

(l) Dust Handling Equipment

Comment 10:

To clarify the scope of the permit shield either include the insignificant activities that are not otherwise specifically regulated that are listed in the technical support document in Section A of the Permit or confirm that the Permit does not need to specifically list all of the insignificant activities that are not otherwise specifically regulated to bring said determinations under the permit shield.

Response 10:

IDEM OAQ has listed all of the insignificant activities in the Part 70 Operating Permit. However, all specifically regulated insignificant activities will still be listed in Section D.16. The changes to Section A.4 are 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)]

Ispat Inland Inc. (Plant ID 089-00316) also includes the following insignificant activities ~~which are specifically regulated,~~ as defined in 326 IAC 2-7-1(21), **with specifically regulated insignificant activities identified in Section D.16**:

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

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

(2) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

(3) 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.

(b) 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.

(c) 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.

(d) The following VOC and HAP storage containers:

(~~a~~**1**) 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]

(2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

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

(f) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(~~b~~**h**) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-5]

(i) Cleaners and solvents characterized as follows:

(1) 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;

(2) 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.

(~~c~~**j**) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.8-1-2]

(k) Closed loop heating and cooling systems.

(l) Rolling oil recovery systems.

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

(n) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the Permittee, that is, an on-site sewage treatment facility.

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

(p) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.

(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

(q) Quenching operations used with heat treating processes.

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

(s) Heat exchanger cleaning and repair.

(t) Process vessel degreasing and cleaning to prepare for internal repairs.

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

(~~d~~**v**) Conveyors as follows: ~~[326 IAC 6-1-2]~~

(1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per

day;

(2) Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;

(3) Uncovered coal conveying of less than or equal to 120 tons per day.

(4) Underground conveyors.

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

(x) 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.

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

(z) 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.

(aa) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(bb) Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to 450 cubic inches by volume.

(cc) On-site fire and emergency response training approved by the department.

(~~e~~**dd**) 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]

(ee) Purge double block and bleed valves.

(ff) Filter or coalescer media change out.

(gg) Vents from ash transport systems not operated at positive pressure.

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

(ii) Any unit emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP

(1) Process Water Cooling Towers (chlorine addition)

Comment 11:

(a) Consistent with previous comments, in the first sentence of Condition B.9(a), replace “the source’s” with “Ispat Inland Inc.’s (Plant ID 089-00316).”

(b) Consistent with previous comments, in Conditions B.9(c)(4) and (c)(5), replace “the source” with “Ispat Inland Inc. Plant ID 089-00316.”

(c) In the first line of Condition B.9(c), include "for Conditions set forth in this permit document" after "report" because this additional language is necessary to clarify that the certification requirements included in Condition B.9 apply to Ispat Inland Inc.'s (Plant ID 089-00316) facility/emission units and not to any of the on-site contractors' facilities/emission units.

Response 11:

In IDEM's Nonrule Policy Document, Guidelines for submittal and review of Annual Compliance Certifications under the Federally Enforceable State Operating Permit (FESOP) and Part 70 Permit Programs (Air-007 First Revision), a table is given as an example for how sources can submit annual compliance certifications. This Nonrule Policy Document can be found at: http://www.in.gov/idem/rules/policies/air/nrpd007r1.pdf. Condition B.9 Annual Compliance Certification is being revised to remove "in letter form" so that it does not contradict the Nonrule Policy Document as follows:

The following changes have been made to Condition B.9:

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

(a) For compliance certification purposes, the term "source" refers to Mittal Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316).

(~~a~~**b**) The Permittee shall annually submit a compliance certification report which addresses the status of ~~the source's~~ **Mittal Steel USA Inc. – Indiana Harbor East's (Plant ID 089-00316)** 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:

Indiana Department of Environmental Management
Compliance 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, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(~~b~~**c**) 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~~**d**) 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~~ **Mittal**

Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316), 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~~ **Mittal Steel USA Inc. – Indiana Harbor East (Plant ID 089-00316)**.

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

Comment 12:

Consistent with Ispat's comments submitted to the IDEM on April 23, 2004, and discussions with IDEM staff, the Continuous Compliance Plan ("CCP") conditions included in Section D should be deleted and a new CCP condition should be added to Section B. The new condition should be included in the draft Permit just prior to the condition regarding the Preventative Maintenance Plan and should be labeled Condition B.10. All subsequent condition numbers will have to be modified and all references thereto accordingly. The new condition should state as follows:

B.10 Continuous Compliance Plan [326 IAC 6-1-10.1]

(a) The Permittee is to maintain at Ispat Inland Inc. Plant ID 089-00316 a copy of its Continuous Compliance Plan ("CCP") in accordance with 326 IAC 6-1-10.1.

(b) The Permittee shall update its CCP, as needed, retain a copy of any changes and upgrades to the CCP on the property, and make the updated CCP available for inspection by the IDEM in accordance with 326 IAC 2-6-10.1(a), (t), and (u).

(c) Consistent with 326 IAC 6-1-10.1(v), the Permittee shall implement its CCP including any record keeping as necessary to ensure that failure to implement a CCP does not cause or contribute to an exceedance of the applicable particulate or opacity limit.

Response 12:

See Change 13.

Comment 13:

Existing draft Permit Condition B.10(d) should cite "40 CFR Part 60 or Part 63" rather than "40 CFR Part 60/63." Additionally, modify this condition as follows: ". . . for a unit, or is required by 326 IAC 6-1-10.1 to have a Continuous Compliance Plan (CCP) for a unit, such OMM Plan or CCP is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit." The CCP requirements of 326 IAC 6-1-10.1 require extensive maintenance, monitoring and inspection procedures. Not only is it reasonable to allow the CCP to satisfy the PMP requirements, disallowing this approach would impose unnecessary, burdensome and duplicative requirements.

Response 13:

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 should consult with the IDEM inspector assigned to the source to evaluate whether the CCP satisfies the PMP.

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, IDEM has deleted paragraph (b) of Section B – Preventive Maintenance, and has

amended the Section B – Emergency Provisions condition as follows:

Condition B.11 has been changed to include the current phone numbers for the Northwest Regional Offices that recently moved to 8315 Virginia Street, Suite 1, Merrillville, IN 46410-9201.

The phone number and the fax number listed in Condition B.11 Emergency Provisions and on the Emergency Occurrence Report have been corrected.

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.

~~(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~~/~~ **or Part** 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 No.: 317-233-~~5674~~**0178** (ask for Compliance Section)
Facsimile No.: 317-233-~~5967~~**6865**
Northwest Regional Office Telephone Number: (219) 757-0265
Northwest Regional Office Facsimile Number: (219) 757-0267

(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.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-~~5674~~0178
Fax: 317-233-~~5967~~6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name:	Mittal Steel USA Inc. - Indiana Harbor East
Source Address:	3210 Watling Street, East Chicago, Indiana 46312
Mailing Address:	3210 Watling Street MC 8-130, East Chicago, Indiana 46312
Part 70 Permit No.:	T089-6577-00316

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-~~5674~~**0178** ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-~~5967~~**6865**), and follow the other requirements of 326 IAC 2-7-16.

Comment 14:

To clarify the current status of existing laws and regulations, insert "as well as the Federal Statutes from the Clean Air Act and the federal rules from 40 CFR" after "326 IAC," in the second sentence of Condition B.12 (a).

Response 14:

IDEM agrees to the change. In addition, Condition B.12, the word "in" will be removed from the second sentence to be consistent with 326 IAC 2-7-15(a).

Condition B.12 has been revised 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, **as well as the Federal Statutes from the Clean Air Act and the federal rules from 40 CFR,** 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.

Comment 15:

To clarify the scope of the permit shield either include the nonapplicability determinations that have been provided in the technical support document in a new subsection of Condition B.12 as follows: "The Part 70 Operating Permit supercedes all prior permits, the existing permits superceded by this permit are as follows: [insert list of superceded permits from the technical support document]." Or confirm that Condition B.12 does not need to specifically list all of the nonapplicability determinations that have been provided in the technical support document to bring said nonapplicability determinations under the permit shield.

Response 15:

The non-applicability determinations stated in the Technical Support Document (TSD) are intended to explain why requirements that might seem to possibly be applicable are not included in the Part 70 permit. The determinations were based primarily on the information provided in the Part 70 application. Without the submittal of more extensive documentation of construction times and any additional work performed on the included emission units, it is not possible for IDEM to determine definitively that no modification has occurred that could have triggered additional NSPS or NESHAP requirements. Therefore, it is not possible for IDEM to include the requested non-applicability determinations in the Part 70 permit and thereby provide a permit shield for those non-applicability determinations.

The permit shield under 326 IAC 2-7-15 only applies to requirements that are included in or identified in a Part 70 permit. However, the purpose of the Part 70 permit program is to incorporate all requirements into one permit by incorporating, revising, or deleting all conditions from previous permits. B.13 correctly states that all previous regulations and permits are superceded by this permit and it is not necessary to specifically list those past permits into the Part 70 permit. No change has been made to this permit as a result of this comment.

Comment 16:

To clarify the scope of the permit shield, either include all of the superceded permits listed in the technical support document in Condition B.13(b), by modifying Condition B.13(b) to include: "The existing permits superceded by this permit are as follows: [insert list from technical support document]." Or confirm that Section B.13 (b) does not need to specifically list all of the superceded permits listed in the technical support document to bring said superceded permits under the permit shield.

Response 16:

See Response 15.

Comment 17:

Consistent with the model language, insert the following missing text in Condition B.16(c) after "326 IAC 2-7 until IDEM, OAQ,": "takes final action on the renewal application, except that this protection shall cease."

Response 17:

A phrase was inadvertently omitted from condition B.16(c) and has been changed as follows:

B.16 Permit Renewal **[326 IAC 2-7-3]**[326 IAC 2-7-4]

(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.

Comment 18:

Delete Condition C.5, Fugitive Dust Emissions, because the fugitive dust emission limitations included in existing draft Permit Condition C.5 should be grouped with the other fugitive dust requirements in a new Section F. Modify all subsequent condition numbers and all references thereto accordingly.

Delete Section D.17 regarding Fugitive Dust Sources. Address fugitive sources in a new Section F. In addition Section D.18 has now been renumbered to Section D.17.

Response 18:

Condition C.5 and Section D.17 have been deleted and a new Section F created to combine all of the fugitive dust requirements. The changes are as follows:

~~C.5 Fugitive Dust Emissions [326 IAC 6-1-11.1]~~

~~(a) Pursuant to 326 IAC 6-1-11.1 (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 the initial hopper of a material processing facility as defined in 326 IAC 6-1-11.1(c) 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 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 hopper of a 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 transfering from pots and trucks shall not exceed twenty percent (20%) on a six (6) minute average.~~

~~(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 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 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) PM_{10} 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 compliance with these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on December 12, 1996.~~

~~(c) The 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 parts (h), (i), (k), (l), (m), (o), (p) and (q) of this rule.~~

~~**SECTION D.17 FACILITY OPERATION CONDITIONS**~~

~~**Facility Description [326 IAC 2-7-5(15)]:**~~

~~**(r) Fugitive Dust Sources consisting of, but not limited to the following:**~~

~~(1) Paved Roads and Parking Lots~~

~~(2) Unpaved Roads and Parking Lots~~

~~(3) Batch Transfer-Loading and Unloading Operations~~

~~(4) Continuous Transfer In and Out of Storage Piles~~

~~(5) Batch Transfer Operations-Slag and Kish Handling~~

~~(6) Wind Erosion from Storage Piles and Open Areas~~

~~(7) In Plant Transfer by Truck or Rail~~

~~(8) In Plant Transfer by Front End Loader or Skip Hoist~~

~~(9) Material Processing Facility (except Crusher Fugitive Emissions)~~

~~(10) Crusher Fugitive Emissions~~

~~(11) Material Processing Facility Building Openings~~

~~(12) 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.17.1 Particulate Matter (PM)[326 IAC 6-1-11.1]~~

~~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). 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.17.2 Particulate Matter (PM)~~

~~Pursuant to 326 IAC 6-1-11.1 (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~~
~~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~~
~~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 plum 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.~~

~~(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 inplant transportation requirement.~~

~~(h) 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.~~

~~(i) Material Processing Limitations~~

~~Compliance with all opacity limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 9. Compliance with all visible emissions limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 22. Compliance with all particulate matter limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 5 or 17.~~

~~(j) 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.17.3 Record Keeping Requirements~~

~~Pursuant to 326 IAC 6-1-11.1 (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 326 IAC 6-1-11.1(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.17.4 Reporting Requirements~~

~~Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted, 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~~

~~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 F FUGITIVE DUST SOURCES

Facility Description [326 IAC 2-7-5(15)]:

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

(1) Paved Roads and Parking Lots

(2) Unpaved Roads and Parking Lots

(3) Batch Transfer-Loading and Unloading Operations

(4) Continuous Transfer In and Out of Storage Piles

(5) Batch Transfer Operations-Slag and Kish Handling

(6) Wind Erosion from Storage Piles and Open Areas

(7) In Plant Transfer by Truck or Rail

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

(9) Material Processing Facility (except Crusher Fugitive Emissions)

(10) Crusher Fugitive Emissions

(11) Material Processing Facility Building Openings

(12) Dust Handling Equipment

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

F.1 Fugitive Dust Emissions [326 IAC 6.8-10]

(a) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(1) Paved roads and Parking Lots.

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

(i) The first shall be taken at the time of emission generation.
(ii) The second shall be taken five (5) seconds later.
(iii) The third shall 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) The Permittee shall implement the control measures specified by 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(3)(F)) within twenty-four (24) hours after notification by the IDEM, OAQ or U.S.EPA of violating the average instantaneous opacity limit. A violation of the instantaneous average opacity limit is a violation of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

(C) When requested by the department or the U.S. EPA, after an exceedance of the opacity limit is observed by a representative of either agency, the source shall initiate a compliance check with the surface silt loading limit. The department may require a revision of the control plan under subsection 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(8)), if the test shows an exceedance of the surface silt loading limit.

(2) Unpaved Roads and Parking Lots.

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

(i) The first shall be taken at the time of emission generation.
(ii) The second shall be taken five (5) seconds later.
(iii) The third shall 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) The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work

practice under the control plan required in 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1 (e)). The department may request a revision of the control plan pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1(e)(8)), if an observation shows an exceedance of the average instantaneous opacity limit. The revision may be in lieu of, or in addition to, pursuing an enforcement action for a violation of the limit.

(3) Material Transfer Limits.

(A) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). 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.

(B) 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 a material processing facility as defined in 3326 IAC 6.8-10-2 (formerly 326 IAC 6-1-11.1(c)) or material transfer for transportation within or outside the source property including, but not limited to, the following:

(i) Transfer of slag product for use by asphalt plants:
(AA) From a storage pile to a front end loader; and
(BB) From a front end loader to a truck.

(ii) Transfer of sinter blend for use at the sinter plant:
(AA) From a storage pile to a front end loader;
(BB) From a front end loader to a truck; and
(CC) From a truck to the initial processing point.

(iii) Transfer of coal for use at a coal processing line:
(AA) From a storage pile to a front end loader; and
(BB) 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.

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

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

(ii) 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 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(9)).

(4) 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. 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.

(5) Wind erosion from storage piles and exposed areas.

(A) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. 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. These 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 periods of sustained very high wind speeds, the Permittee 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.

(B) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. These 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 periods of sustained very high wind speeds, the Permittee 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.

(6) Inplant Transportation of Material by Truck or Rail.

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. 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.

(7) Inplant Transportation of Material by Front End Loader or Skip Hoist.

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%). 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:

(A) The first shall be taken at the time of emission generation.

(B) The second shall be taken five (5) seconds later.

(C) The third shall 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.

(8) Material Processing Facilities.

(A) The PM_{10} stack emissions from each material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration limitation shall be determined using the test methods found in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)). Compliance with the opacity limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(B) The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(C) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

(D) 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. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22.

(E) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration standard shall be determined by 40 CFR 60, Appendix A, Method 5 or 17, and with the opacity standard by 40 CFR 60, Appendix A, Method 9.

(9) Dust Handling Equipment. The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%). Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.

(10) Any facility or operation not specified in 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(1)-(8)) shall meet a twenty percent (20%), three (3) minute opacity standard. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9, except that the opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals. Compliance of any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.

(b) The Permittee is subject to 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6

(formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q)) (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

(c) Permittee has submitted a Fugitive Dust Control Plan to the IDEM in accordance with 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) and has been attached to the Part 70 Permit. Permittee shall keep records consistent with its Fugitive Dust Control Plan.

Comment 19:

To clarify the applicability, scope and legal limits of Condition C.9, Performance Testing, and to provide reasonable flexibility for diagnostic testing:

(a) Include "required pursuant to the conditions of this permit" after "All testing" in the first sentence of Condition C.9(a);
(b) Include "for such required testing" after "A test protocol" at the beginning of the second paragraph of Condition C.9(a);
(c) Modify the first phrase of Condition C.9(b) as follows: "For such required testing, the Permittee. . .."; and
(d) Modify the first sentence of Condition C.9(c) as follows: "Pursuant to 326 IAC 3-6-4(b), such test reports for testing required by this permit must . . .."

Response 19:

IDEM, OAQ agrees. The rule also applies any additional testing required by IDEM, OAQ at any time if deemed necessary.

"OAQ" has been added in C.7(c) (was C.9(c)) Performance Testing.

Therefore, the following changes will be made to Condition C.7 (was C.9) as a result of this comment:

C.7 Performance Testing [326 IAC 3-6]

(a) All testing **required pursuant to the conditions of this permit** 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 **for such required testing**, 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) **For such required testing** ~~T~~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~~ **such** test reports **for testing required by this permit** 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.

Comment 20:

To clarify the applicability and scope of Condition C.10, replace the word "Any" with the word "Such" at the beginning of the second sentence.

Response 20:

IDEM, OAQ agrees: The following changes will be made to Condition C.10:

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~~ **Such** monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Comment 21:

Delete Condition C.12 regarding Maintenance of Continuous Emission Monitoring Equipment because applicable rules set forth the specific requirements for Ispat's CEMs.

Response 21:

IDEM OAQ agrees, the requirements for monitoring the Continuous Emission Monitoring Equipment (CEMS) are contained in D.3.10. Condition C.12 Maintenance of Continuous Emission Monitoring Equipment has been removed and the remaining conditions renumbered.

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

~~(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.~~

~~(b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.~~

~~(c) (c)Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.~~

~~(d) Nothing in this permit, shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 8-13-8(a)(1) and (2), the Permittee shall demonstrate compliance with the emission limits in 326 IAC 8-13-3 by continuously monitoring VOC emissions.~~

Comment 22:

To clarify that the scope of Condition C.17 does not extend to monitoring conditions already subject to the federal requirements at 40 CFR 63, and to avoid the unnecessary, unduly burdensome, duplicative, and unauthorized requirements of imposing the Compliance Response Program on such federally regulated monitoring conditions:

In Condition C.17(a), replace the first sentence and the second sentence included in brackets with the following: "The Permittee is required to prepare a Compliance Response Plan (CRP) for each

compliance monitoring condition set forth in Section D of this permit, except that no CRP is required for any compliance monitoring condition subject to 40 CFR 63, including Subpart FFFFF (Integrated Iron and Steel Manufacturing), Subpart AAAAA (Lime Manufacturing Plants), and Subpart CCC (Steel Pickling – HCI Process Facilities and Hydrochloric Acid Regeneration Plants)(this requirement for a CRP as described herein, shall be referred to as 'CRP Requirement').";

(a) In Condition C.17(a)(2), delete the bracketed language: "[or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start up, Shutdown, and Malfunction (SSM) Plan)]" which appears twice in this condition subsection;

(b) In Condition C.17(a), delete the last sentence of this subsection set in brackets which follows subsection (a)(2);

(c) Include "subject to this CRP Requirement" after the word "permit" in the first line of Condition C.17(b);

(d) In Conditions C.17(b)(1) and (2), delete the bracketed language: "[or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start up, Shutdown, and Malfunction (SSM) Plan)]";

(e) In the second sentence of Condition C.17(b)(2), insert ", or violation of," after "a deviation from";

(f) The first phrase of both Conditions C.17(c) and (e) should be modified as follows: "For each compliance monitoring condition of the permit subject to this CRP Requirement, the Permittee . . . ."

Response 22:

See Change 15.

Comment 23:

The requirements included in Condition C.19, Operational Condition, are more appropriate for Section D.2. As such, move the requirements included in Condition C.19 into Section D.2.

Response 23:

IDEM OAQ agrees and has moved condition C.19 to Section D.2 as condition D.2.11 and subsequent section have been renumbered accordingly.

~~C.19~~**D.2.11** Operational Condition [326 IAC 2-2][326 IAC 2-3]

Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, the requirements below shall be met to obtain the necessary credit for netting requirements:

(a) The following facilities must be permanently shutdown:

(1) the No. 4 BOF Teeming Facility,

(2) the foundry operations in the Mold Foundry Building,

(3) the No. 3AC Station Boiler 305,

(4) the 76 inch hot strip mill,

(5) the 100 inch plate mill,

(6) the No. 4 slabber mill (soaking pits 1-45), and the No. 4 slabber scarfer.

Comment 24:

To clarify the requirements included in Condition C.20, and simplify compliance therewith:

(a) Modify the first paragraph of Condition C.20(a) as follows: "The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year 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. The annual emission statement shall meet the following requirements . . ..";

(b) In Condition 20(a)(1), include "criteria" before the word "pollutants", replace "the source" with "Ispat Inland Inc. Plant ID 089-00316", and capitalize the "e" in "(emissions Reporting)";

(c) Modify the last part of Condition C.20(a)(2) as follows: "from Ispat Inland Inc. Plant ID 089-00316, for purpose of Part 70 fee assessment.";

(d) Modify the sentence following Condition C.20 (a)(2) as follows: "The annual emission statement must be submitted to . . .." Label said paragraph Condition C.20(b) and relabel the remaining subsection Condition C.20(c).

(e) Include the word "annual" before "emission statement" in both references to "emission statement" in the last two paragraphs of Condition C.20.

Response 24:

See Change 15.

Comment 25:

Consistent with the deviation requirements included in Condition B.14, and to clarify the requirements included in Condition C.22, include "probable" before "cause of the deviation..." in the second sentence of Condition C.22 (a).

Response 25:

IDEM OAQ agrees: Condition C.19(a) (was C.22(a)) has been revised as follows:

C.19 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 **probable** 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).

Comment 26 through Comment 27:

26…Consistent with previous comments, the first phrase of Condition C.24 (b)(2) should be modified as follows: "Ispat Inland Inc. Plant ID 089-00316 no longer . . .."

27…Delete Condition C.24 since all related MACT Standards have been signed.

Response 26 through Response 27:

See Change 20.

Comment 28:

Ensure that all applicable authorities are cited in the condition titles included in Section D of the draft Permit.

Response 28:

IDEM agrees and all changes involving applicable authorities have been cited in the condition titles of this Part 70 Operating permit.

Comment 29:

Delete Condition D.0.10, which states that Significant Source Modification 089-16966-00316 becomes effective upon issuance. The effective date was included in Condition B.2 of Significant Source Modification 089-16966-00316 and does not need to be repeated in the Part 70 Operating Permit. Modify the remaining condition numbers and the references to same accordingly.

Response 29:

IDEM OAQ agrees with this comment and has deleted condition D.0.10. The remaining conditions have been renumbered.

~~D.0.10 Effective Date of the Permit [IC13-15-5-3]~~

~~Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and IC 13-15-5-3, Significant Source Modification 089-16966-00316 becomes effective upon its issuance.~~

Comment 30 through Comment 37:

30…Include detailed NESHAP requirements. Since 40 CFR Part 63, Subpart FFFFF, the National Emission Standards for Hazardous Air Pollutants ("NESHAP") for Integrated Iron and Steel Manufacturing, became effective on May 20, 2003, the emission limitations, operating and maintenance, performance testing, and record keeping and reporting requirements of said regulation and 40 CFR Part 63, Subpart A (NESHAP General Requirements) applicable to Ispat's emission units must be included in Ispat's Part 70 Operating Permit ("Permit") Sections D.1, D.2, D.3, D.5 and D.6. Pursuant to 40 CFR § 70.6(a)(1) and (2), Ispat's Permit must include the "[e]mission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of permit issuance. The permit shall specify and reference the origin of and authority for each term or condition, and identify any difference in form as compared to the applicable requirement upon which the term or condition is based." *See also* 326 IAC 2-7-5(1) and 326 IAC 2-7-8(a)(4). In order to clearly set forth the applicable requirements the Permit must specify the following: (1) the status of each emission unit as either an affected unit or not an affected unit; (2) whether affected units are an existing affected source or a new affected source; (3) the compliance dates for the affected sources; (4) the applicable emission limitations, operating and maintenance, performance testing, and record keeping and reporting requirements; and (5) the Permit should apply the permit shield to the applicable requirements of 40 CFR Part 63, Subparts A and FFFFF (by deleting the requirement to submit a significant permit modification and the conditions limiting the permit shield). *See* Ispat's previous comments submitted on April 23, 2004 and the red-lined draft permit with Ispat's proposed incorporation of the NESHAP requirements for Section D.1, provided as an example, attached hereto as Attachment B. Additionally, please note that Ispat is willing to provide proposed Sections D.2, D.3, D.5, and D.6 which incorporate the NESHAP requirements and Ispat acknowledges that other incorporation approaches may be satisfactory and is willing to discuss same with IDEM staff.

31…Delete both references to "Casthouse" in the first sentence of Condition D.1.1(a) because pursuant to 40 CFR § 63.7782(b) the affected sources of 40 CFR Part 63, Subpart FFFFF are each new or existing sinter plant, blast furnace, and basic oxygen process furnace shop.

32…Delete the last sentence of Conditions D.1.1(a), D.2.1(a), D.3.1(a), D.5.1(a) and D.6.1(a) because each is misleading. Portions of 40 CFR Part 63, Subpart A (General Provisions) became applicable to Ispat upon promulgation of 40 CFR Part 63, Subpart FFFFF.

33…Delete Conditions D.1.1(b), D.1.2(b), D.1.22, D.2.1(b), D.2.2(b), D.2.30, D.3.1(b), D.3.2(b), D.3.24, D.5.1(b), D.5.2(b), D.5.26, D.6.1(b), D.6.2(b), and D.6.23 and relabel any remaining subsections and references to same accordingly. *See* Ispat's previous comments regarding including the applicable requirements of 40 CFR Part 63, Subpart FFFFF. In any event, Sections D.1, D.2, D.3, D.5 and D.6 should include a permit shield for all 40 CFR Part 63, Subparts A and FFFFF requirements included in the draft Permit.

34… (a) To avoid confusion, the last phrase of the first sentence of Condition D.1.2(a) should be modified as follows: " . . . to the affected sources, the No. 5 Blast Furnace and the No. 6 Blast Furnace."

(b) To accurately set forth the 40 CFR Part 63, Subpart FFFFF compliance date for the affected sources covered in Section D.1, the third sentence of Condition D.1.2(a) should be modified as follows: "Pursuant to 40 CFR 63.7782, the No. 5 Blast Furnace and the No. 6 Blast Furnace are existing affected sources and must, therefore, comply with 40 CFR Part 63, Subpart FFFFF on and after May 22, 2006."

35…To avoid confusion and to clarify the affected sources, replace "affected source" with "affected sources, the No. 5 Blast Furnace and the No. 6 Blast Furnace" in Condition D.1.2(c).

36…Include a new subsection in Conditions D.1.2, D.2.2, D.3.2, D.5.2 and D.6.2, which sets forth when the emission limitations and operation and maintenance requirements apply as follows:

Pursuant to 40 CFR 63.7810(a), the Permittee shall be in compliance with the emission limitations and operation and maintenance requirements in [Insert Condition Number] at all times except during periods of startup, shutdown, and malfunction as defined in 40 CFR 63.2, which is incorporated by reference in 326 IAC 20-1-3.

37…Delete Conditions D.1.8(a), D.2.15(a), D.3.8(a), D.5.9(a), and D.6.7(a) and relabel the remaining sections of these conditions and the references to same accordingly.

Response 30 through 37:

Since the compliance date for 40 CFR Part 63, Subpart FFFFF has passed; IDEM has incorporated the applicable rules into this Part 70 permit. See Change 28.

Comment 38:

Include "processes" after "No. 6 Blast Furnace" in the first sentence of Condition D.1.3 to clarify the PM_{10} emission limitations that follow in subsections (a) – (c).

Response 38:

The following change has been made to condition D.1.1 (was D.1.3) in response to this comment:

D.1.1 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), the allowable PM10 emissions from No.5 and No. 6 Blast Furnace **processes** shall not exceed the following:

Comment 39:

Delete "326 IAC 6-1-10.1(d)(19) and CP 089-2016, issued on August 22, 1991" from the beginning of Condition D.1.3(a). 326 IAC 6-1-10.1(d)(19) is the authority for the PM_{10} emission limitation is already included in this condition.

Response 39:

The limit was established in CP 089-2016 and was later incorporated into 326 IAC 6-1-10.1(d)(19) (now 326 IAC 6.8-10-3). Since the condition is incorporated into the SIP, IDEM OAQ agrees that the CP does not need to be cited and because the rule citation is already included prior to D1.1 (a), the following change has been made:

(a) ~~326 IAC 6.8-2-17 and CP 089-2016, issued on August 22, 1991,~~ PM10 emissions from pulverized coal storage bin baghouse H (191) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

Comment 40:

Delete Condition D.1.5 and D.1.11 (b) because Section XI.2 of the U.S. EPA Order filed on or about July 1, 1983 regarding the Blast Furnaces Casthouse, its control systems, and operation and maintenance, expired in 2003.

Response 40:

IDEM OAQ agrees to the changes, however because 326 IAC 6-1-2 (now 326 IAC 6.8-1-2) still applies to the No. 5 and No. 6 Blast Furnace Casthouse Collection System Scrubbers, condition D.1.4 has also been corrected as a result of this comment. Conditions D.1.5, D.1.11 (now D.1.5), D.1.16, D.1.19 and D.1.2 (was D.1.4) have been revised as follows:

~~D.1.5 Particulate Matter (PM)~~

~~Pursuant to U.S. EPA Judgement Order dated February 6, 1989, the allowable particulate matter (PM) emission rates from No.5 and No. 6 Blast Furnace Casthouse Collection System Scrubbers shall not exceed the following:~~

~~(a) Mass emissions from No. 5 Blast Furnace Casthouse Collection System Scrubber (1) used to collect casthouse emissions, which is vented outside the casthouse, shall not exceed 0.030 gr/dscf during the casting operation using Methods 1-5, 40 CFR 60, Appendix A~~

~~(b) Mass emissions from No. 6 Blast Furnace Casthouse Collection System Scrubber (2) used to collect casthouse emissions, which is vented outside the casthouse, shall not exceed 0.030 gr/dscf during the casting operation using Methods 1-5, 40 CFR 60, Appendix A~~

~~(c) If Permittee vents any control device outside the casthouse, the Permittee shall also comply with the mass emission limitations~~

~~(d) Utilize emission control equipment and associated operating and maintenance procedures specified in Appendices A and B of the Judgement Order~~

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

~~(a)~~ In order to comply with D.11 (a), the coal storage bin baghouse H (191) for PM control shall be in operation and control emissions from the Pulverized Coal Storage Bin at all times that the No. 5 and No. 6 Blast Furnaces are in operation.

~~(b) Pursuant to U.S. EPA Judgement Order dated February 6, 1989, and in order to comply with D.1.5, the wet scrubber for PM control shall be in operation and control emissions from the No. 5 Blast Furnace Casthouse Collection System Scrubbers (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) during casting operations.~~

~~D.1.16 Casthouse requirements~~

~~Pursuant to U.S. EPA Judgement Order dated February 6, 1989 and in order to comply with D.1.5:~~

~~(a) The Permittee shall observe a minimum of one (1) cast per week (four (4) per month) per operating blast furnace.~~

~~(b) The Permittee shall observe a minimum of twenty (20) cast per furnace during any three month period.~~

~~(c) There shall be two (2) observers recording data. One (1) observer (outside) shall observe and record visible emissions that exit the casthouse. One (1) observer (inside) shall be situated inside the casthouse positioned, consistent with the safety of the observer. The Outside observer shall be certified in accordance with 40 CFR Part 60, Appendix A, Method 9.~~

~~(d) The observations of each cast shall begin with the opening of the taphole and conclude no sooner than one minute after the tap hole has been stopped.~~

~~D.1.19 Casthouse Recordkeeping Requirements~~

~~Pursuant to U.S. EPA Judgement Order dated February 6, 1989 and in order to comply with D.1.5:~~

~~(a) Inside observer shall record, at a minimum:~~
- ~~(1) start and stop times of casthouse operations that may effect the quantity of emissions that escape casthouse;~~
- ~~(2) qualitative magnitude of emissions from the casthouse operations;~~
- ~~(3) descriptions of the out-of –the-ordinary occurrences and qualitative magnitude of emissions caused;~~
- ~~(4) the qualitative capture efficiency of the capture hoods~~
- ~~(5) a description of the control techniques used including positions of iron and slag runner covers and~~
- ~~(6) operating parameters of drill size, estimated tons of hot metal cast and furnace cold blast pressure~~

~~(b) The outside observer shall make and record opacity readings at 15 second intervals. Readings shall be made of emissions at either the roof monitor or the annular space between the casthouse and blast furnace, whichever is more opaque.~~

D.1.2 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2), **No. 5 Blast Furnace Casthouse Collection System Scrubbers (1), No. 6 Blast Furnace Casthouse Collection System Scrubber (2),** the No. 5 Blast Furnace Casthouse Roof Monitor and No. 6 Blast Furnace Casthouse Roof Monitor shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

Comment 41:

Delete Conditions D.1.7, D.2.14, D.3.7, D.4.3, D.5.8, D.6.6, D.7.5, D.8.15, D.13.7, and D.14.3, requiring Preventative Maintenance Plans ("PMPs") because the PMP requirements are duplicative of the Continuous Compliance Plan ("CCP") requirements. 326 IAC 6-1-10.1(q), requires Ispat to raise the intensity of it's PMPs from continued operation to continued compliance operation, covering inspection, repairs, and recordkeeping. Modify the remaining condition numbers and references to same accordingly.

Response 41:

The Preventive Maintenance Plan requirement must be included in every applicable Part 70 permit pursuant to 326 IAC 2-7-5 (13). This rule refers back to the Preventive Maintenance Plan

requirement found in 326 IAC 1-6-3. Since Preventive Maintenance Plans and Continuous Compliance Plans are both required, the Permittee must comply with both requirements. The Permittee should consult with the IDEM inspector assigned to the source to evaluate the PMP vs. CCP requirements. No change has been made as a result of this comment.

Comment 42:

Delete Condition D.1.10 because the actual/inventoried PM and PM_{10} emissions (2001-2003) from the gaseous fired No. 5 Blast Furnace Stoves are much less than 100 tons per year. The No. 5 Blast Furnace Stoves emit less than 27 tons per year particulate matter. Additionally, deletion of this condition is consistent with other steel mill draft Title V Permits, which do not require stack testing from low particulate matter emitting facility/emission units.

Response 42:

IDEM OAQ agrees: Condition D.1.10 has been deleted.

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

~~Within thirty (30) months of issuance of this permit or 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 PM10 testing on the No. 5 Blast Furnace Stoves (3 units) (stack 5) and No. 6 Blast Furnace Stoves (4 units) (stack 6) utilizing a testing method approved by the Commissioner to show compliance with condition D.1.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.~~

Comment 43:

Delete Conditions D.1.12, D.1.20(c), D.2.20, D.2.28(d), D.3.13, D.3.21(b), D.4.5, D.4.10(a), D.5.14, D.5.24(a), D.6.11, D.6.21(a), D.7.7, D.7.14(a), D.8.18, D.8.23(a), D.13.9, D.14.5, and D.14.10(a) regarding the Continuous Compliance Plan. *See* Ispat's previous comments regarding including a new condition in Section C regarding Continuous Compliance Plans.

Response 43:

See Change 13.

Comment 44:

Conditions D.1.13, D.5.16, and D.6.13 should be modified to require Scrubber Parametric Monitoring once per day rather than once per shift.

Response 44:

See Change 25.

Comment 45:

To further clarify the parametric monitoring required in Condition D.1.13, modify the first sentence of Condition D.1.13 as follows:

(a) The Permittee shall record the pressure drop across the scrubber and the flow rate of the scrubber used in connection with the No. 5 Blast Furnace Casthouse Collection System North Scrubber (1) and South Scrubber (1), and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) at least once per day when the applicable Blast Furnace Casthouse is in operation and is venting to the atmosphere.

(b) Conditions D.1.13(a), (b), and (c) incorrectly reference a minimum scrubber range of "400 gallons per minute." Replace "400 gallons per minute" with "22 liters per second" in Conditions D.1.13(a),(b) and (c).

Response 45:

Condition D.1.6 (was D.1.13) has been changed as follows:

D.1.6 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the scrubber **and the flow rate of the scrubber** used in conjunction with the No. 5 Blast Furnace Casthouse Collection System **North** Scrubber (1) **and South Scrubber (1),** and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) at least once per day when the ~~No. 5 Blast Furnace Casthouse and No. 6~~ **applicable** Blast Furnace Casthouse ~~are~~ **is** in operation ~~when~~ **and is** venting to the atmosphere. The scrubbers shall be operated as follows:

(a) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse North scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of ~~400 gallons per minute~~ **22 liters per second** 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 reading that is outside the 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) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse South scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of ~~400 gallons per minute~~ **22 liters per second** 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 reading that is outside the 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.

(c) When for any one reading, the pressure drop across the No. 6 Blast Furnace Casthouse scrubber (2) is outside the normal range of 6.0-9.0kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of ~~400 gallons per minute~~ **22 liters per second** 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 reading that is outside the 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.

Comment 46:

To better describe the scrubbers requiring inspection, Condition D.1.14 should reference "the No. 5 Blast Furnace Casthouse North Scrubbers (1) and South Scrubber (1), and the No. 6 Blast . . .."

Response 46:

See Change 26.

Comment 47:

Delete "immediately" from the first sentence of Conditions D.1.15, D.5.18, and D.6.14 as this requirement is both vague for purposes of certification and in some instances unnecessary to demonstrate compliance with the underlying emission limitation.

Response 47:

See Change 27.

Comment 48:

Delete Conditions D.1.16 and D.1.19 because pursuant to Section IV.1.D.vi of the U.S. EPA Judgment Order filed on or about July 1, 1983, and amended on or about February 6, 1989, the Blast Furnace Casthouse Self-Monitoring Program included in Appendix D of the Order expired in 2001. Renumber the remaining conditions and the references to same accordingly.

Response 48:

Conditions D.1.16 and D.1.19 have been deleted and subsequent sections have been renumbered, see Response 40.

Comment 49:

To avoid having to modify the Part 70 Permit every time Ispat's sulfur dioxide sampling and analysis protocol is modified, reword Conditions D.1.17, D.2.26, D.3.19, D.7.12, and D.13.11, as follows:

In order to comply with Condition [insert the applicable SO_2 emission limit condition], the Permittee shall comply with the sampling and analysis protocol in accordance with 326 IAC 7-4-1.1(d).

Response 49:

IDEM agrees to the requested change.

In addition, the EPA reviewed and approved the revised Lake County Sulfur Dioxide (SO2) SIP rule 326 IAC 7-4.1. The revised SO2 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.

The following changes have been made to Sections D.1, D.2, D,3, D.5, D.6, D.7, D.8, D.10, D.13, D.14 and D.17:

D.1.~~5~~3 Sulfur Dioxide (SO_2)[326 IAC ~~7-4-1.1~~**7-4.1-11**]

Pursuant to 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11(a)(3)**, the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (stack 5) shall not exceed 0.140 pounds per MMBtu **and 41.02 lbs/hour**.

(b) SO_2 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (stack 6) shall not exceed 0.140 pounds per MMBtu **and 41.02 lbs/hour**.

~~D.1.10 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4-1.1(d)]~~

~~Pursuant to 326 IAC 7-4-1.1(d), in order to comply with condition D.1.6, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:~~

~~(a) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(b) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.~~

D.1.8 Sulfur Dioxide (SO2) Sampling and Analysis [7-4.1-11(b)]

In order to comply with condition D.1.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.1.~~11~~**9** Record Keeping Requirements

(a) To document compliance with Conditions D. 1.~~5~~**3** and D.1.~~10~~**8**, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No. 5 and No. 6 Blast Furnaces.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

D.1.~~13~~**10** Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11 (b)(2)**, in order to document compliance with Conditions D. 1.~~5~~**3** and D.1.~~11~~**9** (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.2.14**2** Sulfur Dioxide [326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11**]

Pursuant to 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11(a)**, the SO_2 emissions from the**se units shall not exceed the following:**

(a) **SO_2 emissions from the** No. 7 blast furnace stoves stack (170) shall not exceed ~~0.146~~ **0.195** pounds per MMBtu **and 162 lbs/hour**.

(b) **SO_2 emissions from the No. 7 blast furnace canopy shall not exceed 0.220 lbs/ton and 50.400 lbs/hour.**

(c) **SO_2 emissions from the No. 7 blast furnace casthouse baghouse shall not exceed 0.220 lbs/ton and 50.400 lbs/hour.**

~~D.2.23 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4-1.1(d)]~~

~~Pursuant to 326 IAC 7-4-1.1(d), in order to comply with condition D.2.13, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:~~

~~(a) A description of planned procedures for sampling of sulfur-bearing fuels and materials for~~

~~analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(b) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.~~.

D.2.21 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.2.12, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.2.2~~4~~**2** Record Keeping Requirements

(a) To document compliance with Conditions D.2.14**2** and D.2.2~~3~~**1**, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No. 7 Blast Furnace.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

D.2.2~~6~~**3** Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11 (b)(2)**, in order to document compliance with Conditions D.2.14**2**and D.2.2~~3~~**1**. The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.3.~~5~~**3** Lake County Sulfur Dioxide (SO_2) Emission Limitations [326 IAC ~~7-4-1.1~~ **7-4.1-11**]

Pursuant to 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11(a)(13)**, the SO_2 emissions from the sinter plant windbox (7) shall not exceed ~~167~~ **180.000** pounds per hour.

~~D.3.14 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4-1.1(d)]~~

~~Pursuant to 326 IAC 7-4-1.1(d), in order to comply with condition D.3.5, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:~~

~~(a) A description of planned procedures for sampling of sulfur bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(b) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.~~.

D.3.12 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.3.3, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.3.1~~5~~**3** Record Keeping Requirements

(a) To document compliance with Conditions D.3.~~5~~**3** and D.3.1**4**2, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the Sinter Windbox.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

D.3.18~~8~~**5** Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MMBtu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11 (b)(2)**, in order to document compliance with Conditions D.3.~~5~~**3** and D.3.1~~5~~**3** (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.5.4 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 2 BOF secondary vent (149) shall not exceed 0.014 lbs/ton and 6.440 lbs/hour.

(b) SO_2 emissions from the stack serving No. 2 BOF charge aisle and HMS baghouse (152) shall not exceed 0.151 lbs/ton and 69.460 lbs/hour.

(c) SO_2 emissions from the stack serving No. 2 BOF ladle metal baghouse (154) shall not exceed 0.0.25 lbs/ton and 11.500 lbs/hour.

D.5.17 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.5.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.5.18 Record Keeping Requirements

(d) To document compliance with Conditions D.5.4 and D.5.17, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the No. 2 BOF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(~~d~~**e**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.5.19 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D. 5.4 and D.5.18 (d). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.6.6 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 4 BOF HMS baghouse S and N (26 and 27) shall not exceed 0.151 lbs/ton and 36.391 lbs/hour.

(b) SO_2 emissions from the stack serving No. 2 BOF secondary vent stack (37) shall not exceed 0.001 lbs/ton and 0.535 lbs/hour.

D.6.15 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.6.6, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.6.14~~6~~ Record Keeping Requirements

(a) In order to document compliance with Condition D.6.~~9~~**10**, the Permittee shall maintain records of once per day visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37) and No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) stack exhausts.

(b) To document compliance with Condition D.6.1~~0~~**1**, the Permittee shall maintain the records, once per day of the pressure drop across the scrubber and flow rate during normal operation.

(c) In order to document compliance with condition D.6.~~12~~**3**, the Permittee shall maintain the records once per day of the pressure drop across the baghouses during normal operation.

(d) To document compliance with Conditions D.5.4 and D.5.17, the Permittee shall maintain the following records:

(1) Records of the total fuel usage for each type of fuel used, each day at the No. 4 BOF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(~~d~~**e**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.6.18 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D. 6.6 and D.6.16 (d). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.7.4 Sulfur Dioxide [326 IAC ~~7-4-1.1~~ **7-4.1-11**]

Pursuant to 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11(a)**, the allowable sulfur dioxide (SO_2) emission rate from the No. 1 and No. 2 Kiln baghouses (45 & 49) shall not exceed 0.46 lb/MMBtu **and 32.08**

lbs/hour.

~~D.7.10 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4-1.1(d)]~~

~~Pursuant to 326 IAC 7-4-1.1(d), in order to comply with condition D.7.4, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:~~

~~(a) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

(b) ~~The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.~~.

D.7.10 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.7.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.7.13 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MMBtu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC ~~7-4-1.1(c)(10)(D)(i)~~ **7-4.1-11 (b)(2)**, in order to document compliance with Conditions D.7.4. The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.8.6 Sulfur Dioxide [326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the sulfur dioxide (SO_2) emissions from the EAF shop ladle metal baghouse (143) shall not exceed 0.125 lbs/ton and 13.90 lbs/hour.

D.8.16 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.8.9, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.8.~~19~~**17** Record Keeping Requirements

(a) To document compliance with Conditions D.8.6 and D.8.16, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the EAF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(~~a~~**b**) In order to document compliance with Condition D.8.1~~6~~**3**, the Permittee shall maintain records of once per day visible emission notations of the electric arc furnace operations baghouse stack exhaust(s).

(~~b~~**c**) In order to document compliance with condition D.8.1~~7~~**4**, the Permittee shall maintain the once per day records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

(~~c~~**d**) Pursuant to CP 089-3630, issued March 20, 1995, a log of the information necessary to document compliance with Conditions D.8.4 (a), (b), (c), D.8.5, and D.8.1~~1~~**9**(c), shall be maintained.

(~~d~~**e**) A log of the information necessary to document compliance with Condition D.8.~~9~~**7** shall be maintained. The records shall include the cumulative amount of natural gas fired by the ladle preheaters for each month of operation.

(~~e~~**f**) To comply with 40 CFR Part 60.48c (g), the Permittee shall maintain records of the amount of fuel combusted during each day in the boiler.

(~~f~~**g**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.8.18 Reporting Requirements

(a) The natural gas fired boiler certification shall be submitted to the address listed in Section C-General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. [Note: this is not required until Boiler (207) is constructed]

(b) A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D. 8.6 and D.8.17 (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.10.3 Sulfur Dioxide [326 IAC ~~7-4-1.1~~ **7-4.1-1**]

Pursuant to 326 IAC ~~7-4-1.1~~ **7-4.1-1**, SO2 emissions from the 12" Bar Mill Billet reheat furnace (89), shall be minimized by use of natural gas only.

D.13.4 Sulfur Dioxide (SO_2) [326 IAC ~~7-4-1.1~~ **7-4.1-11**]

Pursuant to 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11(a)**, the sulfur dioxide emission rate from these units shall be limited to the following:

(a) SO_2 emissions from No.2 AC Station Boilers 211-213, shall not exceed ~~0.228~~ **0.140** lbs/MMBtu **each and 168 lbs/hour total**.

(b) SO_2 emissions from No. 5 Boilerhouse 501-503, shall not exceed ~~0.104~~ **0.198** lbs/MMBtu **and 265.2 lbs/hour**.

~~D.13.11 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4-1.1(d)]~~

~~Pursuant to 326 IAC 7-4-1.1(d), in order to comply with condition D.13.2, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:~~

~~(a) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.~~

~~(b) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.~~.

D.13.11 Sulfur Dioxide (SO2) Sampling and Analysis [326 IAC 7-4.1-11(b)]

In order to comply with condition D.13.4, the Permittee shall comply with the sampling and analysis protocol, in accordance with 326 IAC 7-4.1-11(b)(1).

D.13.13 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of limit 326 IAC ~~7-4-1.1(c)(10)(C)~~ **7-4.1-11 (b)(2)**, in order to document compliance with Conditions D.13.4 and D.13.12 (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.14.3 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the SO_2 emissions from the pigging ladle facility (43) shall not exceed 0.020 lbs/ton and 4.000 lbs/hour.

~~D.17.5 Sulfur Dioxide (SO_2) [326 IAC 7-1-1.1]~~

~~Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, all combustion facilities listed in D.18.1 shall use natural gas as the only fuel. Therefore, the requirements of 326 IAC 7-1.1 (SO_2 Emissions Limitations) will not apply.~~

Comment 50:

Consistent with Ispat's previously submitted comments regarding the frequency of compliance monitoring, and to accurately describe the record keeping requirements in Conditions D.1.20(d), D.5.24(c), and D.6.21(c) modify the second phrase of these conditions as follows: ". . . the Permittee shall maintain records of the once per day flow rate and pressure drop readings across the scrubber."

Response 50:

See Change 25.

Comment 51 through Comment 54:

51…Since Ispat already submitted its initial 40 CFR Part 63, Subpart FFFFF notification to the IDEM and the U.S. EPA on September 10, 2003, modify Conditions D.1.21(c), D.2.29(c), D.3.23(c), D.5.25(c), and D.6.22(c) to state: "The Permittee submitted its initial notification to the IDEM and the U.S. EPA on September 10, 2003 in accordance with 40 CFR 63.9(b) and 40 CFR 63.7840."

52…Delete the reference to "Casthouse" in the first sentence of Condition D.2.1(a) because pursuant to 40 CFR § 63.7782(b) the affected sources of 40 CFR Part 63, Subpart FFFFF are each new or existing sinter plant, blast furnace, and basic oxygen process furnace shop.

53…To avoid confusion, the last phrase of the first sentence of Condition D.2.2(a) should be modified as follows: " . . . to the affected sources, the No. 7 Blast Furnace."

54…(a) To accurately set forth the 40 CFR Part 63, Subpart FFFFF compliance date for the affected source covered in Section D.2, the third sentence of Condition D.2.2(a) should be modified as follows: "Pursuant to 40 CFR 63.7782, the No. 7 Blast Furnace is an existing affected source and must, therefore, comply with 40 CFR Part 63, Subpart FFFFF on and after May 22, 2006."

(b) To avoid confusion and to clarify the affected source, include "the No. 7 Blast Furnace" after "affected source" in Condition D.2.2(c).

Response 51 through Comment 54:

Since the compliance date for 40 CFR Part 63, Subpart FFFFF has passed; IDEM has incorporated the applicable rules in to this Part 70 permit. See Change 28.

Comment 55:

(a) Replace "operations" with "process" in the first sentence of Condition D.2.3 to clarify the PM_{10} emission limitations that follow in subsections (a) – (f).

(b) To clarify the emission point, modify Condition D.2.3(d) as follows: ". . . No. 7 blast furnace Casthouse West canopy baghouse . . .."

(c) To clarify the emission point, modify Condition D.2.3(e) as follows: ". . . No. 7 blast furnace Casthouse East baghouse . . .."

Response 55:

IDEM agrees and D.2.1 (was D.2.3) has been changed as follows:

D.2.1 Lake County PM10 emission requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), PM10 and total suspended particulate (TSP) emissions from the No. 7 Blast Furnace ~~operations~~ **process** including the increased capacity shall not exceed the following:

(a) PM10 emissions from the No. 7 blast furnace stockhouse pellet baghouse (168) shall not exceed 0.0052 grains per dry standard cubic foot and 4.00 pounds per hour.

(b) TSP emissions from the No. 7 blast furnace stockhouse coke baghouse (172) shall not exceed 0.01 grains per dry standard cubic foot and 2.00 pounds per hour.

(c) TSP emissions from the No. 7 blast furnace coke screening baghouse (169) shall not exceed 0.007 grains per dry standard cubic foot and 4.200 pounds per hour.

(d) PM10 emissions from the No. 7 blast furnace **Casthouse** ~~(~~West **canopy** baghouse~~)~~ (166) shall not exceed 0.003 grains per dry standard cubic foot and 11.22 pounds per hour.

(e) TSP emissions from the No. 7 blast furnace **Casthouse** ~~(~~East baghouse~~)~~ (167) shall not exceed 0.011 grains per dry standard cubic foot and 22.00 pounds per hour.

(f) PM10 emissions from the stack serving No. 7 blast furnace stove (3 units) stack (170) shall not exceed 0.0076 pounds/MMBtu and 6.32 pounds per hour.

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

Comment 56:

Consistent with CP 089-9033-00316, Condition D.2.7 (a) should reference "0.075 pounds per hour" rather than "0.0075 pounds per hour."

Response 56:

IDEM agrees and condition D.2.5 (a) (was D.2.7 (a)) has been changed as follows:

D.2.5 Particulate Matter (PM) [326 IAC 2-3]

Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, PM emissions from the coal and coke handling equipment shall be limited as follows:

(a) the coke transfer tower (Stack ID 268) shall not exceed 0.~~0~~075 pounds per hour, and

(b) the coke transfer point (Stack ID 269) shall not exceed 0.092 pounds per hour.

Comment 57:

To reflect the intent of 326 IAC 6-1-10.1(k)(5)(F) in Condition D.2.11: (a) delete "minimum" in the third sentence; (b) delete "a minimum of" in the fifth sentence; and (c) insert "be designed to" before "provide" in the fifth sentence of this condition. Without the word "designed," this could be considered to be a compliance requirement. The exact minimum flow does not determine compliance.

Response 57:

This condition is verbatim the wording of 326 IAC 6.8-7-5 (formerly 326 IAC 6-1-10.1(k)(5)(F)). In order to change the requirements of 326 IAC 6.8-7-5, Ispat Inland must request a SIP revision. If a SIP revision is adopted, once it becomes effective, the Permittee may apply for a modification to this permit. No change has been made to condition D.2.11 (now D.2.10).

Comment 58:

Consistent with the language of 326 IAC 9-1-2(2), the first sentence of Condition D.2.12 should be modified as follows: "Pursuant to 326 IAC 9-1-2(2), the No. 7 Blast Furnace waste gas stream shall be burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator."

Response 58:

Condition D.2.12 (now D.2.11) has been changed as follows:

D.2.11 Carbon Monoxide [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), ~~no carbon monoxide shall be discharged from~~ the No.7 Blast Furnace waste gas stream **shall be burned**, ~~unless the waste 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

Comment 59:

Delete Condition D.2.17(a) because the actual/inventoried PM and PM_{10} emissions (2001-2003) from the gaseous fired No. 7 Blast Furnace Stoves are much less than 100 tons per year. The No. 7 Blast Furnace Stoves emit less than 15 tons per year particulate matter. Additionally, deletion of this condition is consistent with other steel mill draft Title V Permits, which do not require stack testing from low particulate matter emitting facility/emission units.

The testing required in Conditions D.2.17(d) and (e) is duplicative and should only be required from either the No. 7 Blast Furnace East baghouse or West baghouse but not both.

Response 59:

IDEM agrees to remove condition D.2.14 (a) (was D.2.17 (a)). Condition D.2.14 (e) is a repeat and has been removed.

D.2.14 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

~~(a) Within thirty (30) months of issuance of this permit or 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 PM10 testing on the No. 7 Blast Furnace Stoves (3 units) (stack 170) utilizing a testing method approved by the Commissioner to show compliance with conditions D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.~~

(~~b~~**a**) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on the No. 7 blast furnace (West baghouse) (166) utilizing a testing method approved by the Commissioner to show compliance with conditions D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(~~c~~**b**) Within thirty (30) months of issuance of this permit, or 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 TSP testing on the No. 7 blast furnace (East baghouse) (167) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

~~(e) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.2.8 for stack 170 for the Stoves, stacks 166 and 167 the West and East baghouses for the No.7 Blast Furnace casthouse. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C - Performance Testing.~~

Comment 60:

Delete Condition D.2.19(c) because the baghouse was utilized to control emissions from the initial screening of coke from the No. 11 Battery; however, the No. 11 Battery is no longer in operation and all coke received has already been screened.

Response 60:

IDEM agrees and has made the following change to D.2.16 (was D.2.19):

D.2.16 Particulate Control [326 IAC 2-7-6(6)]

(a) The No. 7 blast furnace stockhouse pellet baghouse (168) for PM control shall be in operation at all times that the stockhouse pellet process is in operation.

(b) The No. 7 blast furnace stockhouse coke baghouse (172) for PM control shall be in operation at all times that the No. 7 blast furnace coke screening process is in operation.

~~(c) The No. 7 blast furnace coke screening baghouse (169) for PM control shall be in operation at all times that the No. 7 blast furnace coke screening process is in operation.~~

(~~d~~**c**) The No. 7 blast furnace casthouse west baghouse (166) for PM control shall be in operation at all times that the No. 7 blast furnace is in operation.

(~~e~~d) The No. 7 blast furnace casthouse east baghouse (167) for PM control shall be in operation at all times that the No. 7 blast furnace casthouse is in operation.

(~~f~~e) Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, the baghouses for the coke handling equipment (Stack IDs 268 and 269) shall be operated at all times when its associated process is in operation.

Comment 61:

(a) Conditions D.2.21(a), D.3.14(a), D.4.6(a), D.5.15(a), D.6.12(a), D.7.8(a), D.8.19(a), and D.14.6(a) should be modified to require visible emission notations once per day rather than once per shift.

(b) To clarify the reporting and certification requirements associated with the visible emission notation requirements, include the following as the second sentence in Conditions D.2.21(e), D.3.14(e), D.4.6(e), D.5.15(e), D.6.12(e), D.7.8(e), D.8.19(e), and D.14.6(e): "A visible emission notation that is not "normal" is not a violation of the applicable emission limitation(s)."

(c) Consistent with Ispat's previous comments regarding the frequency of compliance monitoring, and to accurately describe the record keeping requirements in Conditions D.2.28(e), D.3.21(c), D.4.10(b), D.5.24(b), D.6.21(b), D.7.14(b), D.8.23(b), and D.14.10(b), modify the second phrase of these conditions as follows: ". . . the Permittee shall maintain records of the once per day visible emission notations of the . . .."

Response 61:

See Change 24.

Comments 62 through 64:

62…Once the compliance monitoring requirements of 40 CFR Part 63, Subpart FFFFF become applicable, the Visible Emission Notation requirements included in Conditions D.2.21, D.3.14, D.5.15, and D.6.12 will no longer be necessary to assure compliance; therefore, said conditions should expire upon the effectiveness of the related compliance monitoring conditions of 40 CFR Part 63, Subpart FFFFF. As such Conditions D.2.21, D.3.14, D.5.15, and D.6.12 should be modified to include the following as the last sentence of each condition: "These conditions shall expire on May 22, 2006."

63…Once the compliance monitoring requirements 40 CFR Part 63, Subpart FFFFF become applicable, the Baghouse Parametric Monitoring requirements included in Conditions D.2.22, D.3.15, D.5.19, and D.6.16 will no longer be necessary to assure compliance; therefore, said conditions should expire upon the effectiveness of the related compliance monitoring conditions of 40 CFR Part 63, Subpart FFFFF. As such Conditions D.2.22, D.3.15, D.5.19, and D.6.16 should be modified to include the following as the last sentence of each condition: "These conditions shall expire on May 22, 2006."

64…Once the compliance monitoring requirements 40 CFR Part 63, Subpart FFFFF become applicable, the Baghouse Inspection requirements included in Conditions D.2.23, D.3.16, D.5.20, and D.6.17 will no longer be necessary to assure compliance; therefore, said conditions should expire upon the effectiveness of the related compliance monitoring conditions of 40 CFR Part 63, Subpart FFFFF. As such Conditions D.2.23, D.3.16, D.5.20, and D.6.17 should be modified to include the following as the last sentence of each condition: "These conditions shall expire on May 22, 2006."

Response 62 through 64:

Reviewer's Note: The condition numbers in the source's comments are reflective of the public noticed permit and not of the final version of the Part 70 Permit. Many of the conditions were deleted in Change 28.

The Visible Emission Notation is an applicable requirement and will remain an applicable requirement on May 22, 2006. As a result, it is necessary for the owner or operator to modify the permit later to change existing monitoring, record keeping, and reporting terms of the Part 70 permit.

The Permittee has requested a compliance extension for the No. 4 BOF (Section D.6), therefore the short language shall remain in the Part 70 permit at this time. The NESHAP requirements will not be covered by the permit shield until the specific compliance options are incorporated into the permit. The owner or operator must begin to comply with the NESHAP requirements starting on May 22, 2007. To help ensure that the permit shield will be in effect for the NESHAP requirements on the compliance date, IDEM, OAQ is requiring that the significant permit modification application be submitted prior to the compliance date.

There is no change made to the permit at this time as a result of this comment.

Comment 65:

(a) Conditions D.2.22(a) and (b), D.3.15(a) and (b), D.4.7, D.5.19, D.6.16(a), (b), and (c), D.7.9, D.8.20, and D.14.7 should be modified to require Baghouse Parametric Monitoring once per day rather than once per shift.

(b) Condition D.2.22(a) includes an incorrect normal baghouse pressure drop range. Replace "1.1-2.0 kPa" with "2.5-8.0 inches of water."

(c) Condition D.2.22(b) includes an incorrect normal baghouse pressure drop range. Replace "0.4-1.3 kPa" with "0.5-2.5 kPa."

(d) Consistent with Ispat's previous comments regarding the frequency of compliance monitoring, and to accurately describe the record keeping requirements in Conditions D.2.28(f), D.3.21(d), D.4.10(c), D.5.24(d), D.6.21(e), D.7.14(c), D.8.23(c), and D.14.10(c), modify the second phrase of these conditions as follows: ". . . the Permittee shall maintain records of the once per day pressure drop readings . . .."

Response 65:

See Change 25.

In addition, condition D.2.18 (was D.2.22) has been changed as follows:

D.2.18 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace casthouse west baghouse (166), at least once per day when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~1.1-2.0~~ **2.5-8.0** ~~kPa~~ **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 reading that is outside the 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 across the baghouse used in conjunction with the No. 7 blast furnace casthouse east baghouse (167), at least once per day when the

above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~0.4-1.3~~ **0.5-2.5** kPa 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 reading that is outside the 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.

Comment 66:

Broken or Failed Bag Detection Conditions D.2.24(a), D.3.17(a), D.4.9(a), D.5.21(a), D.6.18(a), D.7.11(a), D.8.22(a), and D.14.9(a):

(a) consistent with Conditions D.6.18(a), D.7.11(a), D.8.22(a), D.14.9(a), and Significant Source Modification No. 089-06966-00316, the end of the first sentence of the remaining conditions should be modified to state " . . . repaired, replaced, blanked or isolated."; and

(b) delete the last two sentences of these conditions because they are overly burdensome and are unnecessary to demonstrate compliance.

Response 66:

See Change 27.

The following changes have been made as a result of this comment:

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with D.1.1 (a), the coal storage bin baghouse H (191) for PM control shall be in operation and control emissions from the Pulverized Coal Storage Bin at all times that the No. 5 and No. 6 Blast Furnaces 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**, blanked or isolated**. 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.2.16 Particulate Control [326 IAC 2-7-6(6)]

(a) The No. 7 blast furnace stockhouse pellet baghouse (168) for PM control shall be in operation at all times that the stockhouse pellet process is in operation.

(b) The No. 7 blast furnace stockhouse coke baghouse (172) for PM control shall be in operation at all times that the No. 7 blast furnace coke screening process is in operation.

(c) The No. 7 blast furnace casthouse west baghouse (166) for PM control shall be in operation at all times that the No. 7 blast furnace is in operation.

(d) The No. 7 blast furnace casthouse east baghouse (167) for PM control shall be in operation at all times that the No. 7 blast furnace casthouse is in operation.

(e) Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, the baghouses for the coke handling equipment (Stack IDs 268 and 269) shall be operated at all times when its associated process is in operation.

(f) 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**, blanked or isolated**. 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.3.7 Particulate Control [326 IAC 2-7-6(6)]

(a) The main and discharge end baghouses for particulate control shall be in operation at all times when the windbox, crusher, and cooler are in operation. During startup situations the windbox exhaust will not be initially directed to the main stack baghouse to prevent condensation damage to the baghouse. The exhaust will be redirected to the baghouse before the exhaust temperature exceeds 160 degrees F.

(b) Pursuant to CP 089-9176-00316 issued on March 30, 1998, the upper screening station baghouse shall be operated at all times the upper screening station is in operation.

(c) 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**, blanked or isolated**. 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.4.4 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with D.4.1, the baghouses for PM_{10} control shall be in operation and control the PCI Systems A-G except B (which was never built) are in operation.

(b) Pursuant to CP 089-2016-00316 issued on August 22, 1991, the equipment listed in the start of this section shall be operated and maintained in accordance with the manufacturer's specifications.

(c) 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**, blanked or isolated**. 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.5.9 Particulate Control [326 IAC 2-7-6(6)]

(a) The No. 2 BOF truck and ladle hopper baghouse (150) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(b) The No. 2 BOF alloy and flux storage baghouse (151) for PM control shall be in operation at all times that any alloy unloading or handling is in process in the related controlled areas.

(c) The No. 2 BOF charging aisle reladling and desulfurization baghouse (152) for PM control shall be in operation at all times that the Hot metal station is in operation.

(d) The No. 2 BOF secondary ventilation system scrubber (149) for PM control shall be in operation at all times that either of the furnaces are in operation.

(e) The No. 2 BOF ladle metallurgical station baghouse (154) for PM control shall be in operation at all times that the ladle metallurgy facility station is in operation.

(f) The No. 2 BOF caster fume collection baghouse (159) for PM control shall be in operation at all times that the continuous caster is in operation.

(g) The No. 2 BOF tundish dump baghouse (156) for PM control shall be in operation at all times that the tundish dump and repair station are handling leaded steel/bloom tundishes. (This baghouse is only used for dumping leaded steel/bloom tundishes.)

(h) 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**, blanked or isolated**. 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.6.9 Particulate Control [326 IAC 2-7-6(6)]

(a) The hot metal transfer and desulfurization operation baghouses (26 and 27) for PM control shall be in operation at all times that any of the respective processes are in operation.

(b) The BOF and process off-gas scrubber system (38) and secondary ventilation baghouse (37) shall be in operation at all times that either of the furnaces are in operation.

(c) Raw material handling for RHOB facility baghouse (33) shall be in operation at all times that any of the processes are in operation.

(d) 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**, blanked or isolated**. 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.7.6 Particulate Control [326 IAC 2-7-6(6)]

(a) The No.1 and No. 2 Kiln baghouses (45), (49), Storage Silo baghouse (47), micro-pulse baghouse (46) and Truck loadout baghouse (48) for PM control shall be in operation and control emissions from the No. 1 Lime Plant operations at all times that the No. 1 Lime Plant is in operation and associated equipment is also 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**, blanked or isolated**. 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.8.12 Particulate Control [326 IAC 2-7-6(6)]

(a) The electric arc furnace baghouse (141) for PM10 control shall be in operation at all times that the electric arc furnace is in operation.

(b) The ladle metallurgical station baghouse (143) for PM10 control shall be in operation at all times that the ladle metallurgical station is in operation.

(c) 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**, blanked or isolated**. 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.14.5 Particulate Control [326 IAC 2-7-6(6)]

(a) The former Mold Foundry, No. 6 Roll shop, Electric shop and No. 4 Roll Shop baghouses shall be operated at all times that related processes at the subject facilities are operating. At the Mold Foundry that equipment includes Pugh Ladle Car Lancing or Iron Pigging.

(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**, blanked or isolated**. 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 67:

Delete "immediately" from the first sentence of Conditions D.2.24(b), D.3.17(b), D.4.9(b), D.5.21(b), D.6.18(b), D.7.11(b), D.8.22(b), and D.14.9(b) because it is both vague for purposes of certification and in some instances unnecessary to demonstrate compliance with the underlying emission limitation.

Response 67:

See Change 27.

Comment 68 and 69:

68…Correct the typographical errors in the first sentence of Condition D.3.1(a) as follows: "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, the Sinter Plant, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF." Additionally, include a period between the "D" and the "3" and include a "T" before "able" in the title of Condition D.3.1.

69…(a) To avoid confusion, the last phrase of the first sentence of Condition D.3.2(a) should be modified as follows: " . . . to the affected source, the Sinter Plant."

(b) To accurately set forth the 40 CFR Part 63, Subpart FFFFF compliance date for the affected source covered in Section D.3, the third sentence of Condition D.3.2(a) should be modified as follows: "Pursuant to 40 CFR 63.7782, the Sinter Plant is an existing affected source and must, therefore, comply with 40 CFR Part 63, Subpart FFFFF on and after May 22, 2006."

(c) To avoid confusion and to clarify the affected source, include "the Sinter Plant" after "affected source" in Condition D.3.2(c).

Response 68 and 69:

See Change 28.

Comment 70:

Replace "PM" with "Total Suspended Particulate (TSP)" in the first sentence of Condition D.3.3, consistent with 326 IAC 6-1-10.1(d)(19) and the TSP emission limitations in D.3.3(a) and (b).

Response 70:

IDEM agrees and condition D.3.1 (was D.3.3) has been changed as follows:

D.3.1 Lake County PM emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), ~~PM~~ **Total Suspended Particulate (TSP)** emissions at the Sinter Plant shall not exceed the following:

(a) TSP emissions from the Windbox baghouse (7) shall not exceed 0.007 grains per dry standard cubic foot and 17.00 pounds per hour.

(b) TSP emissions from the Discharge end and cooler baghouse (8) shall not exceed 0.01 grains per dry standard cubic foot and 11.70 pounds per hour.

The emission limitations apply to one (1) stack serving the multiple units specified when the facility descriptions notes "stack serving", and to each stack of multiple stacks serving multiple facilities when the facility description notes "each stack serving".

Comment 71:

Modify the beginning of Condition D.3.4 consistent with 326 IAC 6-1-11.1(d) and delete the unnecessary cite to a March 30, 1998 Exempt Construction and Operation Status Letter as follows: "Pursuant to 326 IAC 6-1-11.1(d), the PM_{10} emissions from the upper screening . . .."

Response 71:

IDEM agrees. The limit was established in the March 30, 1998 Exempt Construction and Operation Status letter, however since this limit is also found in 326 IAC 6-1-11.1(d), Condition D.3.2 (was D.3.4) has been changed as follows:

D.3.2 Particulate Matter (PM) **[326 IAC 6.8-10-3]**

Pursuant to ~~CP089-9176-00316~~ **326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)), the PM10 emissions from** the upper screening station baghouse (11) shall not exceed 0.022 grains per dry standard cubic foot of exhaust air.

Comment 72:

Change "326 IAC 7-4-1.1(c)(10)(C)(xiv)" to "326 IAC 7-4-1.1(c)(10)(C)(xii)" to correct the typographical error in the citation included in Condition D.3.5.

Response 72:

IDEM agrees and condition D.3.3 (was D.3.5) has been changed as follows:

D.3.3 Lake County Sulfur Dioxide (SO_2) Emission Limitations [326 IAC 7-4-1.1]

Pursuant to 326 IAC 7-4-1.1(c)(10)(C)~~(xiv)~~ **(xii)**, the SO_2 emissions from the sinter plant windbox (7) shall not exceed 167 pounds per hour.

Comment 73:

To clarify the applicable authority and requirements and because most production mixes do not require operation of the baghouse, modify Condition D.3.11(b) as follows: "Pursuant to Ispat' No. 3 Sinter Plant Fugitive Control Project which received an Exempt Construction and Operation Status Letter, CP 089-9176-00316, on March 30, 1998, the upper screening station baghouse operates when required by product fugitives."

Response 73:

Condition D.3.7 (was D.3.9) has been changed as follows:

D.3.7 Particulate Control [326 IAC 2-7-6(6)]

(a) The main and discharge end baghouses for particulate control shall be in operation at all times when the windbox, crusher, and cooler are in operation. During startup situations the windbox exhaust will not be initially directed to the main stack baghouse to prevent condensation damage to the baghouse. The exhaust will be redirected to the baghouse before the exhaust temperature exceeds 160 degrees F.

(b) Pursuant to **Ispat's No. 3 Sinter Plant Fugitive Control Project which received an Exempt Construction and Operation Status Letter,** CP 089-9176-00316 issued on March 30, 1998, the upper screening station baghouse ~~shall be~~ **operates**~~d~~ ~~at all times the upper screening station is in operation~~ **when required by product fugitives**.

Comment 74:

(a) Correct Condition D.3.15(a) so as to require a pressure drop reading from the windbox main baghouse when the windbox is in operation by deleting "crusher, and cooler are" in the first sentence and replacing it said phrase with "is." The crusher and cooler do not vent to the windbox main baghouse.

(b) Correct Condition D.3.15(b) so as to require a pressure drop reading from the discharge end baghouse when the crusher and cooler are in operating by deleting "windbox" from the first sentence and replacing "windbox main" with "discharge end" in the second sentence. The windbox does not vent to the discharge end baghouse.

(c) The baghouse parametric monitoring Conditions D.3.15(b) and D.8.20 do not adequately address multi-compartment baghouses with individual monitors on each compartment, but without overall pressure differential instrumentation. Modify the baghouse parametric monitoring conditions so as to allow the averaging of compartments since a direct overall pressure drop is not available. Historical compliance performance ranges have been set by the averaging of compartments, which provides an equally effective, if not superior, parametric versus an overall pressure drop. If overall pressure drop instrumentation was to be installed, the data would not be numerically equivalent to the averaged compartments due to the necessity of different locations for the pressure taps, hence making historical data invalid. Finally, averaging individual compartment pressure differentials gives maintenance personnel an opportunity to anticipate detailed/compartmental problems thus increasing the probability of continued overall compliance performance of the baghouse.

Response 74:

The modification of the baghouse parametric monitoring conditions to allow the averaging of compartments will not be allowed by IDEM. The company has stated that they will install instrumentation to perform overall monitoring. New pressure differentials have been requested in conditions D.3.15 (b)(now D.3.10) and D.8.20 (now D.8.18) to reflect the new gauge ranges. The following changes have been made to these conditions:

D.3.10 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the windbox main baghouse (7) used in conjunction with the sinter plant operations, at least once per day when the windbox~~, crusher, and cooler are~~ **is** in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main baghouse is outside the normal range of 2.0 and 1~~0~~**5**.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 reading that is outside the 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 across discharge end baghouse (8) used in conjunction with the sinter plant operations, at least once per day when the ~~windbox,~~ crusher~~,~~ and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the ~~windbox main~~ **discharge end** baghouse is outside the normal range of 2.0 and 8.0 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 reading that is outside the 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.

D.8.14 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the ladle metallurgical station processes (143) at least once per day when the ladle metallurgical station processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of ~~1~~**2**.0-10.5 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 reading that is outside the 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.

Comment 75:

Delete the extra “the” in the first sentence of Condition D.3.16.

Response 75:

Condition has been deleted, see Change 26.

Comment 76:

It is unnecessary to have a separate condition for the Upper Screening Station Baghouse Operation. Condition D.3.18 cites to Exempt Construction and Operation Status Letter, CP 089-9176-00316, as the authority for the requirements included in said condition; however, the IDEM has failed to recognize that the cited authority specifically states that the No. 3 Sinter Plant Fugitive Control Project is classified as exempt from air pollution permit requirements. Delete Condition D.3.18.

Response 76:

The requirements listed in condition D.3.18 were included as a condition in Exempt Construction and Operation Status Letter, CP 089-9176-00316 issued on March 30, 1998, however this was a Fugitive Control Project and the changes in response 73, should address this request. Condition D.3.18 has been deleted as follows:

~~D.3.18 Upper Screening Station Baghouse Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~Pursuant to CP 089-9176, issued on March 30, 1998:~~

~~(a) An inspection shall be performed each calendar quarter of the upper screening station baghouse (11). Defective bags shall be replaced. A record shall be kept of the results of the inspection and the number of bags replaced.~~

~~(b) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) 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) hours of~~

~~discovery of the failure and shall include a timetable for completion. 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 77:

The first sentence of Condition D.3.22 should reference the "windbox" rather than the "windowbox."

Response 77:

Condition D.3.14 (was D.3.22) has been changed as follows:

~~D.3.14 Continuous Emission Monitoring - Record Keeping and Reporting [326 IAC 8-13]~~

(a) The Permittee shall comply with the record keeping and reporting requirements in 326 IAC 3-5 for continuous emissions monitoring system for VOC on sinter wind~~ow~~box (7). In addition, the Permittee shall comply with the following record keeping and reporting requirements:

Comment 78:

Consistent with the facility description, change "PCI operations" to "PCI system" in the first sentence of Condition D.4.1.

Response 78:

Condition D.4.1 has been changed as follows:

D.4.1 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to **326 IAC 6.8-2 (formerly** 326 IAC 6-1-10.1(d)(19)), PM10 emissions from the PCI ~~operations~~ **system** shall not exceed the following:

Comment 79:

Consistent with 326 IAC 6-1-10.1(f)(2), include a subsection in Conditions D.4.4, D.7.6, D.8.17, D.10.6, D.12.10, D.13.8, and D.14.4 which states:

For purposes of demonstrating compliance with 326 IAC 6-1-10.1, PM_{10} emissions shall be measured by either:

(a) 40 CFR Part 51, Appendix M, Method 201;
(b) 40 CFR Part 51, Appendix M, Method 201A; or
(c) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3 or 4.

Response 79:

326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(1)) specifies the methods required to measure emissions of TSP matter and PM10 during testing. These changes do not belong in the Particulate Control Condition as requested, but within the Testing Requirement conditions.

The following changes have been made to all Testing Requirement conditions in this permit, to maintain uniformity, as a result of this comment:

D.2.14 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

(**a**) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on the No. 7 blast furnace (West baghouse) (166) utilizing a testing method approved by the Commissioner to

show compliance with conditions D.2.3, in accordance with Section C - Performance Testing. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(**b**) Within thirty (30) months of issuance of this permit, or 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 TSP testing on the No. 7 blast furnace (East baghouse) (167) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.3, in accordance with Section C - Performance Testing. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

D.3.6 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or the date of the last valid compliance test or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform TSP and SO2 testing on the sinter plant windbox exhaust (S2A) using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.3.3 and D.3.5. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** These tests shall be repeated at least once every two and a one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance

D.5.8 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.3 and 5.4, in accordance with Section C - Performance Testing. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

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

(a) Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No. 4 BOF (stack 38) utilizing a testing method approved by the Commissioner to show compliance with conditions D.6.3 and D.6.4, in accordance with Section C - Performance Testing. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.13.10 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

(a) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on stacks 125-130 for the No.2 AC Station utilizing a testing method approved by the Commissioner to show compliance with condition D.13.1, in accordance with Section C - Performance Testing. **Testing shall be performed using a test method that is listed in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner.** This test shall

be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

Comment 80:

(a) Add an "s" to the word "baghouse" in the first sentence of Condition D.4.7.

(b) Condition D.4.7 includes an incorrect normal baghouse range. Replace "0.5 and 1.5 kPa" with "0.25 – 1.5 kPa."

Response 80:

Condition D.4.6 (was 4.7) has been changed as follows:

D.4.6 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

The Permittee shall record the pressure drop across the baghouse**s** used in conjunction with the Coal pulverizer D (187) and Coal pulverizer E (188) at least once per day when the coal pulverizers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.**2**5 ~~and~~ **-**1.5 kPa 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 reading that is outside the 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.

Comment 81 through 82:

81…(a) For clarification purposes, please modify the references to "Basic Oxygen Furnace" in Conditions D.5.1(a), D.5.2(a), (c), (d), (f), and (g), D.5.9(b), (c), (e), and (f), D.5.10(a), (b), and (e), and D.5.23(a) and (e) to "the No. 2 Basic Oxygen Furnace."

(b) Consistent with the facility description, add "Shop" after "(BOF)" in the first sentence of Condition D.5.1(a).

82…(a) To avoid confusion, the last phrase of the first sentence of Condition D.5.2(a) should be modified as follows: " . . . to the affected source, the Basic Oxygen Furnace Shop."

(b) To accurately set forth the 40 CFR Part 63, Subpart FFFFF compliance date for the affected source covered in Section D.5, the third sentence of Condition D.5.2(a) should be modified as follows: "Pursuant to 40 CFR 63.7782, the Basic Oxygen Furnace Shop is an existing affected source and must, therefore, comply with 40 CFR Part 63, Subpart FFFFF on and after May 22, 2006."

(c) To avoid confusion and to clarify the affected source, include "the Basic Oxygen Furnace Shop" after "affected source" in Condition D.5.2(c).

Response 81 through 82:

See Change 28.

Comment 83:

Replace "PM" with "Total Suspended Particulate (TSP)" and include "Shop" after "BOF" in the first sentence of Condition D.5.3, consistent with 326 IAC 6-1-10.1(d)(19), the TSP emission limitations in D.5.3(a) through (i), and the facility description.

Response 83:

Condition D.5.1 (was D.5.3) has been changed as follows:

D.5.1 Lake County PM emission requirements [**326 IAC 6.8-2]**

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), **Total Suspended Particulates (TSP)** ~~PM~~ emissions from the BOF **Shop** operations shall not exceed the following:

Comment 84:

Consistent with the language of 326 IAC 9-1-2(2), the first sentence of Condition D.5.6 should be modified as follows: "Pursuant to 326 IAC 9-1-2(2), the No. 2 BOF off-gas waste gas stream shall be burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator."

Response 84:

Condition D.5.5 (was D.5.6) has been changed as follows:

D.5.5 Carbon Monoxide [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), ~~no carbon monoxide shall be discharged from~~ the No. 2 BOF, **off-gas waste gas stream shall be burned** ~~unless the waste 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

Comment 85:

(a) Delete the carbon monoxide ("CO") testing requirement in Condition D.5.11(a) because Stacks 147 and 148 are controlled by flares and cannot be tested for CO.

(b) Consistent with our discussions with IDEM staff, delete the duplicative testing requirement in Condition D.5.11(b).

Response 85:

Condition D.5.11 (now D.5.8) has been changed as follows:

D.5.8 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

(a) Within thirty (30) months of issuance of this permit, or 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 TSP~~, CO~~ and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.3 and 5.4, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

~~(b) Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.3 and 5.4, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.~~

(~~c~~**b**) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform Lead (Pb) emissions testing, utilizing

methods approved by the Commissioner to show compliance with emission factors in Appendix A to this permit, for stack 147 or 148 for the off-gas scrubber for 10 BOF or 20 BOF and stack 149 for the secondary ventilation system scrubber at the No.2 BOF. Testing shall be conducted in accordance with Section C –Performance Testing.

Comment 86:

Condition D.5.12(f) should include "producing leaded steel/blooms" as the last phrase of the condition because the caster fume collection baghouse only has to be in operation when the continuous caster is producing leaded steel/blooms.

Response 86:

Condition D.5.12 (f) (now D.5.9 (f)) has been changed as follows:

D.5.9 Particulate Control [326 IAC 2-7-6(6)]

(f) The No. 2 BOF caster fume collection baghouse (159) for PM control shall be in operation all times that the continuous caster is in operation **producing leaded steel/blooms**.

Comment 87:

(a) Replace the incorrect references to "baghouse" in the second sentences of Conditions D.5.16(a), (b) and (c) with "scrubber."

(b) Delete "during the hot metal charge" at the end of the first sentence of Condition D.5.16(c) because the scrubber pressure drop water flows are set and are not operation dependent.

Response 87:

Condition D.5.16 (now D.5.12) has been changed as follows:

D.5.12 Scrubber Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 10 BOF (147), at least once per day when the 10 BOF is in operation. When for any one reading, the pressure drop across the ~~baghouse~~ **scrubber** is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 20 BOF (148), at least once per day when the 20 BOF is in operation. When for any one reading, the pressure drop across the ~~baghouse~~ **scrubber** is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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.

(c) The Permittee shall record the pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop secondary ventilation system (149), at least once per day ~~during the hot metal charge~~. When for any one reading, the pressure drop across the ~~baghouse~~ **scrubber** is outside the normal range of 25 and 45 inches of water or a range

established during the latest stack test and the flow rate of the scrubber is below the minimum of 1250 gallons per minute, or a minimum rate 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 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.

Comments 88 through 91:

88…Once the related compliance monitoring requirements 40 CFR Part 63, Subpart FFFFF become applicable, the Scrubber Parametric Monitoring and Scrubber Inspection requirements included in Conditions D.5.16, D.5.17, D.6.13 and D.6.15 will no longer be necessary to assure compliance; therefore, said conditions should expire upon the effectiveness of the compliance monitoring conditions of 40 CFR Part 63, Subpart FFFFF. As such Conditions D.5.16, D.5.17, D.6.13, and D.6.15 should be modified to include the following as the last sentence of each condition: "These conditions shall expire on May 22, 2006."

89…To clarify the affected source, modify the last phrase in the first sentence of Condition D.6.1(a) as follows: ". . . affected source, the No. 4 Basic Oxygen Furnace (BOF).

90….(a)To avoid confusion, the last phrase of the first sentence of Condition D.6.2(a) should be modified as follows: " . . . to the affected source, the No. 4 Basic Oxygen Furnace."

(b) To accurately set forth the 40 CFR Part 63, Subpart FFFFF compliance date for the affected source covered in Section D.6, the third sentence of Condition D.6.2(a) should be modified as follows: "Pursuant to 40 CFR 63.7782, the No. 4Basic Oxygen Furnace is an existing affected source and must, therefore, comply with 40 CFR Part 63, Subpart FFFFF on and after May 22, 2006."

(c) To avoid confusion and to clarify the affected source, include "No. 4 Basic Oxygen Furnace" after "affected source" at the end of Condition D.6.2(c).

91…For clarification purposes, please include "No. 4" before "Basic Oxygen Furnace" in Conditions D.6.2(d), (f), and (g), D.6.7(b), (c), (e), and (f), D.6.8(a), (b), and (e), and D.6.20(a) and (e).

Response 88 through 91:

See Change 28.

The following change has been made to D.6.1:

D.6.1 General Provisions Relating to 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 source, **No. 4** Basic Oxygen Furnace (BOF), except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF.

Comment 92:

Replace "PM_{10}" with "Total Suspended Particulate (TSP)" and include "No. 4" before "BOF" in the first sentence of Condition D.6.3, consistent with 326 IAC 6-1-10.1(d)(19), the TSP emission limitations in D.6.3(a) through (d), and the facility description.

Response 92:

Condition D.6.3 has been changed as follows:

D.6.3 Lake County PM10 emission requirements [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)) ~~PM10~~ **Total Suspended Particulate (TSP)** emissions from the **No. 4** BOF operations shall not exceed the following:

Comment 93:

Delete "and Furnace Additive Hopper baghouse (35)" from Condition D.6.5 because it discharges inside the building.

Response 93:

Furnace Additive Hopper is an emission unit that is subject to the requirements of 326 IAC 6.8-1-2. This emission unit is controlled by the Furnace Additive Hopper baghouse; therefore the emissions from this baghouse shall not exceed 0.03 gr/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 94:

Delete "and the fan amperage of the baghouse" from the first sentence of Condition D.6.16(b) because said requirement is redundant and unnecessary.

Response 94:

Condition D.6.16 (now 6.13) has been changed as follows:

D.6.13 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(b) The Permittee shall record the pressure drop across the baghouse ~~and the fan amperage of the baghouse~~ used in conjunction with the No. 4 BOF hot metal transfer and desulfurization baghouse south (27) at least once per day when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.0-12.0 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 violation of this permit.

Comment 95:

Delete Conditions D.6.19 and D.6.21(g) because both are based on Agreed Order, Cause No. A-4218, which expired August 25, 2000. Renumber the remaining conditions and all references to same accordingly.

Response 95:

Conditions D.6.19 has been deleted and D.6.21 (now D.6.16) has been revised as follows:

~~D.6.19 BOF Scrap Quality Control~~

~~Based on Agreed Order, Cause No. A-4218, the Permittee shall update and keep on file a revised work instruction for incoming scrap metal quality control. The quality control work instruction shall provide reasonable assurance that portions of the scrap metal charged in the BOF are free from non-metallic contamination, residual petroleum products, and fluids that could cause opacity excursions.~~

D.6.16 Record Keeping Requirements

~~(g) In order to document compliance with Condition D.6.19, the Permittee shall maintain and update the quality control work instruction and shall make the document available upon request by IDEM.~~

(~~h~~**f**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 96:

Since 40 CFR Part 63, Subpart AAAAA, the National Emission Standards for Hazardous Air Pollutants ("NESHAP") for Lime Manufacturing Plants, became effective on January 5, 2004, the emission limitations, operating and maintenance, performance testing, and record keeping and reporting requirements of said regulation and 40 CFR Part 63, Subpart A (NESHAP General Requirements) applicable to Ispat's emission units must be included in Ispat's Part 70 Operating Permit ("Permit") Section D.7.

Pursuant to 40 CFR § 70.6(a)(1) and (2), Ispat's Permit must include the "[e]mission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of permit issuance. The permit shall specify and reference the origin of and authority for each term or condition, and identify any difference in form as compared to the applicable requirement upon which the term or condition is based." *See also* 326 IAC 2-7-5(1) and 326 IAC 2-7-8(a)(4). In order to clearly set forth the applicable requirements the Permit must include the following: (1) the status of each emission unit as either an affected unit or not an affected unit; (2) whether affected units are an existing affected source or a new affected source; (3) the compliance dates for the affected sources; (4) the applicable emission limitations, operating and maintenance, performance testing, and record keeping and reporting requirements; and (5) the Permit should apply the permit shield to the applicable requirements of 40 CFR Part 63, Subparts A and AAAAA (by deleting the requirement to submit a significant permit modification and the conditions limiting the permit shield).

Response 96:

See Change 29.

Comment 97:

Delete Conditions D.7.1(b) and D.7.15 and relabel any remaining subsections and references to same accordingly. *See* Ispat's previous comments regarding including the applicable requirements of 40 CFR Part 63, Subpart AAAAA. In any event, Section D.7 should include a permit shield for all 40 CFR Part 63, Subparts A and AAAAA requirements included in the draft Permit.

Response 97:

See Change 29.

IDEM, OAQ recognizes that the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) are new and that the owner or operator most likely does not currently know exactly which option or options will be chosen to comply with the rule. As a result, it is necessary for the owner or operator to modify the permit later to include the compliance options that will be chosen as well as the additional monitoring, record keeping, and reporting requirements for the options chosen. Adding the specific compliance options chosen to the permit will significantly change existing monitoring, record keeping, and reporting terms of the Part 70 permit such that a significant permit modification will be required in accordance with 326 IAC 2-7-12(d)(1). The NESHAP requirements will not be covered by the permit shield until the specific compliance options are incorporated into the permit. The owner or operator must begin to comply with the NESHAP requirements starting on the compliance date. To help ensure that the permit shield will be in effect for the NESHAP requirements on the compliance date, IDEM, OAQ is requiring that the

significant permit modification application be submitted prior to the compliance date. The Permittee shall submit the significant permit modification application to specify which option they will employ to meet compliance with this requirement on the appropriate affected units after the effective date of the NESHAP.

Comment 98:

Since 40 CFR Part 63, Subpart AAAAA, the National Emission Standards for Hazardous Air Pollutants ("NESHAP") for Lime Manufacturing Plants, became effective on January 5, 2004: delete D.7.2(a) and (b) and create a new D.7.2(a) to read as follows:

(a) The provisions of 40 CFR 63, Subpart AAAAA (National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants) apply to the affected sources, the No. 1 and No. 2 Kilns, their associated cooler(s), and processed stone handling (PSH) operation system(s). Pursuant to 40 CFR 63.7081, the No. 1 and No. 2 Kiln, their associated cooler(s), and processed stone handling (PDH) operation system(s) are existing affected sources and must, therefore, comply with the applicable emission limitations of 40 CFR Part 63, Subpart AAAAA and have completed all applicable performance tests no later than January 5, 2007.

(b) Relabel the existing subsections and references to same accordingly.

(c) For clarity, modify the last phrase of Condition D.7.2(c) as follows: "the above-referenced affected sources."

Response 98:

See Change 29.

Comment 99:

The first sentence of Condition D.7.8 (e) should reference "these units" rather than "this unit."

Response 99:

See Change 24.

Comment 100:

To clarify the affected source replace "facility" with "natural gas-fired boiler" in Condition D.8.1.

Response 100:

Condition D.8.1 has been deleted as follows:

~~D.8.1 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 facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.~~

Comment 101:

Correct the incorrect reference to "(142)" in Condition D.8.2(b) and replace it with "(141)."

Response 101:

Condition D.8.2(b) has been changed as follows:

D.8.1 Lake County PM10 emission requirements **[326 IAC 6.8-2]**

(b) PM10 emissions from the electric arc furnace shop direct shell evacuation system baghouse roof monitor (14~~2~~**1**) shall not exceed 0.0052 grains per dry standard cubic foot and 17.14 pounds per hour.

Comment 102:

(a) Pursuant to 326 IAC 6-1-1, Applicability, the limitations in 326 IAC 6-1-2 only apply if a facility is not specifically listed in 326 IAC 6-1-8.1 through 18. Since the Ispat's electric arc furnace shop direct shell evacuation system baghouse roof monitor (141) is specifically listed in 326 IAC 6-1-10.1 (*see* Condition D.8.2(b)), delete "electric arc furnace (141)" from Condition D.8.4.

(b) To clarify the correct designation for the EAF Shop Roof Monitor, replace "Area" with "Shop" in Condition D.8.4.

Response 102:

IDEM agrees and Condition D.8.4 (now D.8.2) has been changed as follows:

D.8.2 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the ~~electric arc furnace (141),~~ regenerative horizontal ladle preheaters (140), continuous casting and cooling operations (144 and 145), vacuum tank degasser (208), EAF ~~Area~~ **Shop** Roof Monitor (142) and DRI Bin Vent Filters (210-212) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

Comment 103:

To clarify the construction permit requirement, include "from the Electric Arc Furnace" after "sulfur dioxide emissions" in Condition D.8.9.

Response 103:

Condition D.8.9 (now D.8.5) has been changed as follows:

D.8.5 Sulfur Dioxide - Combustion Fuel Usage [326 IAC 2-2][326 IAC 2-3]

Pursuant to CP 089-3630-00316 issued March 20, 1995, combustion sulfur dioxide emissions **from the Electric Arc Furnace** shall be limited by using natural gas-fired burners.

Comment 104:

Delete Condition D.8.11 because it is not necessary. This condition was written to describe the offset situation that existed at the time of the permit issuance and is no longer contemporaneous. Renumber the remaining conditions and references to same accordingly.

Response 104:

IDEM agrees and has deleted condition D.8.11:

~~D.8.11 Nitrogen Oxide (NOx) [326 IAC 2-2][326 IAC 2-3]~~

~~Pursuant to MSM089-10601-00316 issued March 8, 1999, any change or modification which will increase the NOx emissions to greater than 18.2 tons per year, requires prior approval pursuant to 326 IAC 2-3 (Emission Offset)~~

Comment 105:

Delete "[326 IAC 2-3]" from the title of Condition D.8.12 and delete the last sentence of this

condition because the applicable authority are the referenced permits. Carbon monoxide is not currently an offset pollutant.

Response 105:

IDEM agrees and condition D.8.8 (was D.8.12) has been revised:

D.8.8 Carbon Monoxide Emissions [326 IAC 2-2]~~[326 IAC 2-3]~~

(a) Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the required amount of oxygen shall be supplied to the EAF to ensure that the carbon monoxide emissions shall not exceed 4.67 pounds per ton.

(b) Pursuant to MSM 089-10601-00316 issued March 8, 1999, the CO emissions from the vacuum degasser shall not exceed 0.17 pound per ton of steel throughput to the degasser.

These limits will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration)~~ and 326 IAC 2-3 (Emission Offset) level requirements.~~

Comment 106:

(a) Consistent with Ispat's previous comments, delete "regenerative horizontal" in the first sentence of Condition D.8.13(a) and replace it with "natural gas." As established earlier, the related natural gas limitation has been established for the highest emission firing rate, and the ladle orientation is irrelevant with respect to emission generation.

(b) Delete the last sentence of Condition D.8.13 (b) and the table that follows because these requirements are not included in the construction permit referenced as the applicable authority.

Response 106:

IDEM agrees and has changed Condition D.8.9(a) (was D.8.13) as follows:

Construction Permit 089-3630-00316 issued March 20, 1995 was written and included a netting table which included the following requirements: the No. 80 furnace at the No. 1 Electric Arc Furnace Shop and the No. 2AC boiler 207-10 were required to be permanently shutdown and the emissions from the No. 1 Electric Arc Furnace Shop were limited as part of the netting calculations of the permit. When the combined Construction Permit 089-6919-00316 was issued on December 30, 1996 to build Indiana Harbor Coal and Coke (IHCC) and Cokenergy, it included the limitation table based upon the previous netting. CP 6919 was reissued as 3 separate permits to IHCC, Cokenergy and Ispat Inland, Inc. This table was included in 089-9033-00316, issued on February 26, 1998. It was determined to include several conditions based upon information submitted by the company for contemporaneous increases and decreases for which IDEM OAQ had given the company credit during this project to ensure that the credited decreases were federally enforceable. Therefore, the following change has been made to Condition D.8.12 (b):

D.8.9 Emission Offsets [326 IAC 2-2][326 IAC 2-3]

(a) Pursuant to Construction Permit (45) 1856 issued October 17, 1990, that prior to the start of operation of the five ~~regenerative horizontal~~ **natural gas** ladle preheaters, the existing three cold combustion type horizontal ladle preheaters at the No. 1 Electric Furnace shop will be removed from operation.

(b) Pursuant to Construction Permit ~~089-3630-00316 issued March 20, 1995~~ **089-9033-00316 issued on February 26, 1998**, the No. 80 furnace at the No. 1 Electric Arc Furnace Shop and the No. 2AC boiler 207-10 shall be permanently shutdown as required in CP No. 089-3630, issued on March 20, 1995. Also, as required in CP ~~No. 089-3630~~**089-6919-00316 issued on December 30, 1996**, the emissions from the No. 1 Electric Arc Furnace Shop shall be limited as follows in tons per year:

TSP	PM_{10}	SO_2	Lead	VOC	NO_x	CO
133.2	108.0	336.7	1.23	11.3	159.6	2303.5

Comment 107:

(a) To clarify the requirements, replace the last sentence of Conditions D.8.14 and D.18.6 with the following: "Prior to construction, Permittee will verify with IDEM the credibility of the existing NSR analysis."

(b) Include "was" before "issued" in the first phrase of Condition D.8.14.

Response 107:

IDEM disagrees. MSM 089-10601-00316 issued March 8, 1999 and Significant Source Modification 089-10472-00316 issued on May 19, 1999 were issued more than five (5) years ago and no construction has begun since issuance. Pursuant to 326 IAC 2-1.1-9.5 (a)(1), a permit to construct is effective for a term not to exceed five (5) years. The equipment and conditions related to the two permits have been removed from the Part 70 Permit. If the Permittee decides to construct the requested facilities, a new construction permit must be applied for and issued prior to construction.

Condition A.2 (h)(7) and (8) and in Description Box D.8 have been deleted and subsequent numbers revised. Conditions D.8.1, D.8.3, D.8.4, D.8.5, D.8.13, D.8.17 and D.8.18 have been changed as follows:

(h) No. 1 Electric Arc Furnace comprised of the following facilities, process equipment, and operational practices:

~~(7) One (1) vacuum tank degasser with maximum capacity of 111.3 tons of steel per hour, exhausting to stack 208. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)~~

~~(8) One (1) natural gas fired boiler, with an estimated maximum capacity of 41.5 MMBtu per hour, exhausting to stack 207. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)~~

(~~9~~**7**) Slag handling operations.

(~~10~~**8**) EAF Shop Roof Monitor (stack 142).

~~D.8.1 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 natural gas-fired boiler described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.~~

~~D.8.3 Particulate Matter (PM/PM10) and Sulfur Dioxide [40 CFR Part 60, Subpart Dc] [326 IAC12-1]~~

~~The natural gas boiler (207) is subject to 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating limits); however, there are no applicable emission limitations for the boiler, only record keeping requirements.~~

D.8.~~4~~**2** Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the particulate matter emissions from the regenerative horizontal ladle preheaters (140), continuous casting and cooling operations (144 and 145), ~~vacuum tank degasser (208),~~ EAF

Shop Roof Monitor (142) and DRI Bin Vent Filters (210-212) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

~~D.8.5 Particulate Matter [326 IAC 6.8-1-2(b)]~~

~~Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2)(b), particulate matter (PM) emissions from the 41.5 MMBtu per hour heat input boiler (207) shall not exceed .01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.~~

~~D.8.13 Construction Condition [326 IAC 2-1.1-9(5)]~~

~~A MSM 089-10601-00316 issued March 8, 1999, to construct the vacuum degasser and a boiler (207). This equipment has not been constructed. Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the commissioner may revoke this approval if construction is not commenced within 18 months after receipt of approval. Permittee shall seek prior approval before constructing this equipment.~~

D.8.~~21~~**17** Record Keeping Requirements

(a) To document compliance with Conditions D.8.~~9~~**6** and D.8.~~20~~**16**, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the EAF.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(b) In order to document compliance with Condition D.8.~~17~~**13**, the Permittee shall maintain records of once per day visible emission notations of the electric arc furnace operations baghouse stack exhaust(s).

(c) In order to document compliance with condition D.8.~~18~~**14**, the Permittee shall maintain the once per day records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

(d) Pursuant to CP 089-3630, issued March 20, 1995, a log of the information necessary to document compliance with Conditions D.8.~~7~~**4** (a), (b), (c), D.8.~~8~~**5**, and D.8.~~12~~**9**(c), shall be maintained.

(e) A log of the information necessary to document compliance with Condition D.8.~~10~~**7** shall be maintained. The records shall include the cumulative amount of natural gas fired by the ladle preheaters for each month of operation.

~~(f) To comply with 40 CFR Part 60.48c (g), the Permittee shall maintain records of the amount of fuel combusted during each day in the boiler.~~

(~~g~~**f**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.8.~~22~~**18** Reporting Requirements

~~(a) The natural gas fired boiler certification shall be submitted to the address listed in Section C-General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. [Note: this is not required until Boiler (207) is constructed]~~

~~(b)~~ A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility

each day and any violations of limit 326 IAC 7-4.1-11 (b)(2), in order to document compliance with Conditions D. 8.~~9~~**6** and D.8.~~21~~**17** (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Condition A.2 (q)and in Description Box D.17 and all conditions in D.17 have been deleted

~~**(q) A continuous coating line (CCL No. 6) with a maximum throughput of 600,000 tons per year, comprised of the following facilities, process equipment, and operational practices: (This equipment has not been constructed)**~~

~~(1) One (1) electrical resistance welder, exhausting inside the building.~~

~~(2) One (1) alkali cleaning system, consisting of electrolytic and sodium hydroxide dunk tanks, and a brush scrubbers rinse tank, and exhausting inside the building.~~

~~(3) One (1) natural gas-fired strip dryer, identified as 250, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.~~

~~(4) One (1) natural gas-fired radiant tube furnace heating section, identified as 251A, with a heat input capacity of 102.05 million Btu per hour, and exhausting through one (1) stack, identified as 251.~~

~~(5) One (1) natural gas-fired radiant tube furnace soaking section, identified as 251B, with a heat input capacity of 5.4 million Btu per hour, and exhausting through one (1) stack, identified as 251.~~

~~(6) Two (2) zinc pots, one (1) aluminum pot, one (1) zinc premelt pot, and one (1) aluminum zinc premelt pot, with electric induction heating for each pot, and all exhausting inside the building.~~

~~(7) One (1) natural gas-fired galvanneal soaking furnace, identified as 252, with a heat input capacity of 6.5 million Btu per hour, and exhausting inside the building.~~

~~(8) One (1) natural gas-fired strip dryer, identified as 253, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.~~

~~(9) One (1) chem-treat roll coating system with one (1) natural gas-fired strip dryer, identified as 254, with a heat input capacity of 2.05 million Btu per hour, and exhausting inside the building.~~

~~(10) One (1) phosphate roll coating system with one (1) natural gas-fired infra-red furnace, identified as 255, with a heat input capacity of 9.36 million Btu per hour, and exhausting inside the building.~~

~~(11) Three (3) electrostatic boilers exhausting inside the building.~~

~~(12) Natural gas-fired space heaters, identified as 256, with a heat input capacity of 77.52 million Btu per hour, and exhausting through one (1) stack, identified as 256.~~

~~(13) One (1) natural gas-fired boiler, identified as 257, with a heat input capacity of 22.95 million Btu per hour, and exhausting through one (1) stack, identified as 257.~~

~~D.17.1 Particulate Matter (PM) [326 IAC 6.8-1-2] [326 IAC 6-2-4]~~

~~(a) Pursuant to 326 IAC 6.8-1-2 (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the radiant tube furnace heating section (251A), radiant tube~~

~~furnace soaking section (251B) and space heaters (256) shall not exceed 0.01 grain per dry standard cubic foot (gr/dscf).~~

~~(b) Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2)(b), particulate matter (PM) emissions from the boiler (257) shall not exceed 0.01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.~~

~~D.17.2 Emission Offset [326 IAC 2-3]~~

~~Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999:~~

~~(a) The natural gas-fired space heaters (256) shall use less than 300 million cubic feet (MMCF) per twelve (12) consecutive month period. This usage limit is required to limit the potential to emit NO_X from the space heaters to 15 tons per year. Therefore, the Permittee will have enough NO_X offset credits to meet the requirements of 326 IAC 2-3 (Emission Offset) for this project.~~

~~(b) Pursuant to 326 IAC 2-3 (Emission Offset), the 76" Hot Strip Mill, 100" Plate Mill and No. 4 Slabber Pits #19 through 45 shall be permanently shut down prior to operation of the No. 6 Continuous Coating Line. Therefore, the Permittee shall meet the requirements to offset their VOC and NO_X increases from this project. These shutdowns will provide 502.3 tons per year of NO_x and 7.3 tons per year of VOC.~~

~~(c) The volatile organic compound (VOC) emissions from the radiant tube furnace heating and soaking sections (251A and 251B) shall not exceed 1.4 pounds per million cubic feet (lb/MMCF). Therefore, the Permittee shall meet the offset requirements of 326 IAC 2-3 (Emission Offset).~~

~~D.17.3 Heat Input Capacities~~

~~Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, the heat input capacities stated in the application and in the description of equipment shall be limited as follows:~~

~~(a) The natural gas-fired strip dryer, identified as 250, shall not exceed a heat input capacity of 2.04 million Btu per hour.~~

~~(b) The natural gas-fired radiant tube furnace heating section, identified as 251A, shall not exceed a heat input capacity of 102.05 million Btu per hour.~~

~~(c) The natural gas-fired radiant tube furnace soaking section, identified as ID 251B, shall not exceed a heat input capacity of 5.4 million Btu per hour.~~

~~(d) The natural gas-fired galvanneal soaking furnace, identified as 252, shall not exceed a heat input capacity of 6.5 million Btu per hour.~~

~~(e) The natural gas-fired strip dryer, identified as 253, shall not exceed a heat input capacity of 2.04 million Btu per hour.~~

~~(f) The natural gas-fired strip dryer, identified as 254, shall not exceed a heat input capacity of 2.05 million Btu per hour.~~

~~(g) The natural gas-fired infra-red furnace, identified as 255, shall not exceed a heat input capacity of 9.36 million Btu per hour.~~

~~(h) The natural gas-fired space heaters, identified as 256, shall not exceed a heat input capacity of 77.52 million Btu per hour.~~

~~(i) The natural gas-fired boiler, identified as 257, shall not exceed a heat input capacity of 22.95 million Btu per hour.~~

~~D.17.4 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 boiler exhausting to stack 257 described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.~~

~~D.17.5 Sulfur Dioxide (SO_2) [326 IAC 7-4.1-1]~~

~~Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, all combustion facilities listed in D.18.1 shall use natural gas as the only fuel. Therefore, the requirements of 326 IAC 7-4.1-1 (SO_2 Emissions Limitations) will not apply.~~

~~D.17.6 Construction Condition [326 IAC 2-1.1-9(5)]~~

~~A Significant Source Modification 089-10472-00316 was issued on May 19, 1999 to construct a continuous coating line (CCL No. 6). This equipment has not been constructed. Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the commissioner may revoke this approval if construction is not commenced within 18 months after receipt of approval. Prior to construction, Permittee will verify with IDEM the credibility of the existing NSR analysis.~~

~~D.17.7 Preventive Maintenance Plan [326 IAC 1-6-3]~~

~~A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these facilities.~~

~~D.17.8 Testing Requirements [326 IAC 2-1-4(f)] [326 IAC 3-6]~~

~~Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, the Permittee shall perform compliance stack tests for VOC emissions from the radiant tube furnace heating and soaking sections (251A and 251B) within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed in accordance with Section C - Performance Testing using the methods specified in the rule or as approved by the Commissioner. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.~~

~~D.17.9 Record Keeping Requirements [326 IAC 2-1-3(i)(8)]~~

~~(a) To document compliance with Condition D.17.2 (a), the Permittee shall maintain the following records:~~

~~(1) Calendar dates covered in the compliance determination period; and~~

~~(2) Actual natural gas usage for the space heaters since last compliance determination period.~~

~~(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

~~D.17.10 Reporting Requirements [326 IAC 2-1-3(i)(8)]~~

~~A quarterly summary of the information to document compliance with Condition D.17.2 (a) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days of the end of the reporting period.~~

~~D.17.6 Construction Condition [326 IAC 2-1.1-9(5)]~~

~~A Significant Source Modification 089-10472-00316, issued on May 19, 1999 to construct a continuous coating line (CCL No. 6). This equipment has not been constructed. Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the commissioner may revoke this approval if construction is not commenced within 18 months after receipt of approval. Permittee shall seek prior approval before constructing this equipment.~~

Comment 108:

Condition D.8.20 includes an incorrect normal baghouse pressure drop range. Replace "4.0-10.5 inches of water" with "2.0-10.5 inches of water." Additionally, revise Condition D.8.20 consistent with the fact that the requirements apply to two separate baghouses with two separate 1-10.5 inches of water pressure differential ranges.

Response 108:

The requested range has been changed and a condition (a) has been created for the electric arc furnace (141) and a condition (b) for the ladle metallurgical station processes (143) as follows:

D.8.14 Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the electric arc furnace (141) ~~and ladle metallurgical station processes (143)~~ at least once per day when the electric arc furnace ~~and ladle metallurgical station processes are~~ **is** in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4**2**.0-10.5 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 reading that is outside the 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 across the baghouse used in conjunction with the ladle metallurgical station processes (143) at least once per day when the ladle metallurgical station processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0-10.5 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 reading that is outside the 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.

Comment 109:

Delete the parenthetical included in Condition D.9.2(c) because all three walking beam furnaces may operate at one time and have a cumulative total heat input limitation.

Response 109:

IDEM agrees and Condition D.9.2 has been changed as follows:

D.9.2 Walking Beam Furnace Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to CP 089-4400 issued on August 23, 1995, the Walking Beam Furnaces shall be limited as follows:

(a) NOx emissions shall not exceed 357 pounds per million cubic feet of natural gas.

(b) Carbon monoxide emissions shall not exceed 13 pounds per million cubic feet of natural gas

(c) the total heat input to the three walking furnaces ~~(operating any two walking beam furnaces at any one time)~~ shall not exceed an hourly rate of 1371.2 MMBtu/hr

Comment 110:

Consistent with the requirement included in the construction permit cited as the authority, modify the end of Condition D.9.3 as follows: ". . . feet per year, based on a twelve (12) month average rolled on a monthly basis."

Response 110:

IDEM disagrees to the change because it would make the fuel usage limit less stringent than the Construction Permit.

Comment 111:

For clarity, include a comma after: (a) "CP 089-3192"; (b) "October 26, 1994"; (c) "1717"; (d) "December 15, 1988" and; (e) include "issued" before "December 15, 1988." in Condition D.9.5(b).

Response 111:

Condition D.9.5(b) has been changed as follows:

D.9.5 PSD and Emissions Offset Credit Limits [326 IAC 2-2 and 326 IAC 2-3]

(b) The reactivated two (2) natural gas fired Pusher Furnaces in CP 089-3192**,** issued on October 26, 1994**,** and the previously restricted backup Furnaces in PC (45) 1717**, issued** on December 15, 1988**,** at the 80" Hot Strip Mill shall be permanently removed from service.

These conditions will satisfy the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emissions Offset).

Comment 112:

Delete Condition D.9.8(b) because the record keeping is not necessary to show compliance with Condition D.9.2(c). Renumber the remaining subsections and references to same accordingly.

Response 112:

IDEM OAQ agrees that condition D.9.8(b) is not necessary to show compliance with condition D.9.2(c) and has made the following change:

D.9.8 Record Keeping Requirements

(a) To document compliance with Condition D.9.3, the Permittee shall maintain records of natural gas use.

~~(b) In order to document compliance with D.9.2(c), the Permittee shall keep a log of information about start up and shutdown, date and time for the walking beam furnaces on a daily basis.~~

(~~c~~**b**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 113:

Delete Condition D.10.3 because the Billet Inspection Line Shotblaster discharges inside the building. Furthermore, the construction permit cited as the authority for this condition does not include an opacity limit. Renumber the remaining conditions and references to same accordingly.

Response 113:

Condition 4 of CP 089-2545, states "that Particulate Matter (PM) emissions shall be limited to 2.74 lbs/hour (12 tons/year) to satisfy 326 IAC 6-3. PM emissions will be considered in compliance with 326 IAC 6-3 provided that visible emissions are limited to 10% opacity. This condition was not included in the Part 70 permit because 6-1-2, not 6-3 is applicable to this facility; however the retained opacity limit is not needed. Condition D.10.3 has been removed as follows:

~~D.10.3 Opacity~~

~~Pursuant to CP 089-2545, issued on February 4, 1994, opacity from the Billet Inspection Line Shotblaster shall not exceed 10% opacity.~~

Comment 114 and 115:

114…Delete the requirement to operate the Billet Line Shot Blaster baghouse at all times the shot blaster is operating in Condition D.10.6 and the related record keeping in Condition D.10.7(b) because the Billet Inspection Line Shot Blaster baghouse discharges inside. Relabel any remaining subsections and all references to same accordingly.

115…Delete Condition D.10.7(a) because the record keeping is unnecessary. The reheat furnace only has the capacity to fire natural gas. Modify the remaining conditions and references to same accordingly.

Response 114 and 115:

The Billet Line Shot Blaster baghouse is required to operate at all times in order to comply with the requirements of 326 IAC 6.8-1-2. Reasonable accommodations are made with respect to compliance monitoring or testing. Compliance should be documented in the Annual Compliance Certification (ACC).

IDEM OAQ has made the following changes to Condition D.10.6 (now D.10.5) and Condition D.10.7:

D.10.5 Particulate Control [326 IAC 2-7-6(6)]

Pursuant to CP-089-2545, issued on February 4, 1994, the Billet Inspection Line Shotblaster baghouse shall be operated at all times that the shotblaster is operating ~~(and shall be maintained at an average pressure drop of 3 to 5 inches)~~.

~~D.10.7 Record Keeping Requirements~~

~~(a) To document compliance with Condition D.10.4, the Permittee shall maintain records of natural gas use.~~

~~(b) To document compliance with Condition D.10.6, the Permittee shall document pressure drop of Billet Inspection Line Shotblaster baghouse.~~

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

Comment 116 through 122:

116…To clarify the affected sources, modify Condition D.11.1 as follows: ". . . apply to the existing affected units, the No. 4 and No. 5 Pickling Lines described in this section . . .."

117…Consistent with the fact that Ispat already conducted its initial performance test in accordance with 40 CFR Part 63, Subpart CCC and consistent with Ispat's approved alternative schedule, modify Condition D.11.6(a) as follows:

(a) Performance tests shall be conducted every 2.5 years or twice per Part 70 Operating Permit term in accordance with the Permittee's alternative schedule approved by the IDEM, OAQ. If any performance test shows that the HCL emission limitation is being exceeded, the Permittee is in violation of the emission limit. Performance tests shall meet the following minimum requirements . . ..

(b) Additionally, delete all unnecessary verbage in Condition D.11.6(c) and the first four sentences of Condition D.11.5(b) and modify the last sentence of Condition D.11.6(b) as follows: "The Permittee may reestablish compliant operating parameter values as part of any performance test that is conducted subsequent to its initial test or tests in accordance with 40 CFR 63.1161(b)." Relabel the remaining subsections and references to same accordingly.

118… Consistent with the IDEM's delegation of authority, replace "U.S. EPA" in Condition D.11.5 (e)(6) with "IDEM, OAQ."

119**…** For clarity, include "initial" before "performance test" in the last sentence of Condition D.11.8.

120…(a)Include the applicable authority "and 40 CFR 63.1165(a)" after "(Subpart A, General Provisions)" in Condition D.11.9(a)(1).

(b)Consistent with previous comments, in Condition D.11.9(a)(1)(F), replace "source" with "Permittee."

(c)Consistent with previous comments, in Condition D.11.9(a)(1)(H), replace "a source" with "the Permittee."

(d)Include the specific authority in Condition D.11.9(a)(2) by replacing "under 40 CFR Part 63, Subpart CCC" with "by 40 CFR 63.1165(b)."

(e)Consistent with previous comments, in Condition D.11.9(a)(2)(D), replace "the source" with "the Permittee."

121… Delete all references to "Part" in Section D.11 when referencing specific sections of 40 CFR Part 63.

122…(a)Correct the missing words in the first sentence of Condition D.11.10(c) by including "is required" after "affected source."

(b)Consistent with previous comments, in Condition D.11.10(c)(1), replace "source" with "affected source."

(c)Consistent with the applicable requirements, replace "Permittee" with "owner or operator" in the second sentence of Condition D.11.10(c)(2).

Response 116 through 122:

See Change 21.

Comment 123:

Delete Condition D.11.7 because the scrubbers referenced in this condition were installed to control HCL, not particulate matter. Renumber the remaining conditions and references to same accordingly.

Response 123:

IDEM agrees and Condition D.11.7 has been deleted.

~~D.11.7 Particulate Matter (PM)~~

~~In order to comply with Conditions D.11.4, the wet scrubber for PM control shall be in operation and control emissions from the No. 4 Pickling Line (178) and No. 5 Pickling Line (176) at all times that the No. 4 Pickling Line and No. 5 Pickling Line is in operation.~~

Comment 124:

Change "Replacement" in the title of Condition D.12.3 to "Reducing."

Response 124:

Condition D.12.3 has been changed as follows:

D.12.3 No. 4 Aluminizing Line Radiant Tube ~~Replacement~~ **Reducing** Furnace Limitations

Pursuant to CP 45-1854, issued on July 11, 1990, the furnace shall be fired by natural gas and rated at 19.136 MMBtu/hr heat input.

Comment 125:

Consistent with Significant Source Modification 089-16966-00316 and the language included in Condition D.2.8, Carbon Monoxide Best Available Control Technology ("BACT"), include the following at the end of Condition D.13.3.

Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under Condition D.13.8 show that the CO emission limitations in Condition D.13.3 are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emission limitations in D.13.3. The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit) shall apply to this permit modification.

Response 125:

IDEM agrees and Condition D.13.5 (was D.13.3) has been changed as follows:

D.13.5 Carbon Monoxide (CO) - Best Available Control Technology [326 IAC 2-2-3]

(a) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the carbon monoxide emissions from the various stacks associated with the No.7 Blast Furnace shall not exceed the following limitations:

Stack ID, associated equipment	Type of fuel combusted at the equipment	CO emissions limitations (pound/MMSCF of fuel)
134, No.5 Boiler House	Blast Furnace Gas	13.7
	Natural Gas	84
	Combination gas (a mix of natural gas and blast furnace gas)	$\frac{\text{13.7 X Usage of BFG (MMSCF)+ 84 X Usage of NG (MMSCF)}}{\text{Total usage of BFG and NG (MMSCF)}}$

(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under condition D.13.10 show that the CO emission limitations in condition D.13.5 are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emissions limitations in D.13.5 (a). The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The

Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to this permit modification.

Comment 126:

Include the missing word "date" after "The" in Condition D.13.4(f)(1).

Response 126:

Condition D.13.6 (f)(1) (was D.13.4(f)(1)) has been changed as follows:

D.13.6 NOx Budget Unit Exemption [326 IAC 10-4-3]

(f) A unit exempt under 326 IAC 10-4-3(b) shall lose its exemption on the earlier of the following dates:

(1) The **date** on which the NOx authorized account representative submits a NOx budget permit application under subdivision (3) or (4).

(2) The date on which the NOx authorized account representative is required under subdivision (3) or (4) to submit a NOx budget permit application.

Comment 127:

Correct the issuance date of CP 089-3551 in Condition D.13.5 to "October 28, 1994." Additionally, consistent with the construction permit cited change "1419 MMBtu/hr" to "1410 MMBtu/hr" in Condition D.13.5.

Response 127:

Condition D.13.7 (was D.13.5) has been changed as follows:

D.13.7 Equipment and Operational Specifications [326 IAC 2-2]

Pursuant to CP 089-3551 issued on October ~~1~~**2**8, 1994, the Permittee shall limit the use of Blast Furnace Gas and natural gas up to a maximum of 141**0**~~9~~ MMBtu/hr in all boilers inclusive or in any boiler combination in lieu of oil as fuel at No. 2 AC Station.

Comment 128:

Delete Conditions D.13.8(a) and (d) because the actual/inventoried PM and PM_{10} emissions (2001-2003) from each of the gaseous fired No. 2 AC Station boilers and from the gaseous fired No. 5 Boiler House are much less than 100 tons per year. Each of the No. 2 AC Station boilers emit less than 22 tons per year particulate matter. The No. 5 Boiler House emits less than 27 tons per year particulate matter. Additionally, deletion of this condition is consistent with other steel mill draft Title V Permits, which do not require stack testing from low particulate matter emitting facility/emission units.

Response 128:

Testing of No. 2 AC Station boilers and from the gaseous fired No. 5 Boiler House for PM10 was erroneously included in the draft permit. The following changes have been made to Condition D.13.8 (now D.13.10):

D.13.10 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

~~(a) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on stacks 125-130 for the No.2 AC Station utilizing a testing method approved by the Commissioner to show~~

~~compliance with condition D.13.1, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.~~

(~~b~~**a**) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

(~~c~~**b**) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.5 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

~~(d) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on, stack 134 for the No.5 Boiler House.utilizing a testing method approved by the Commissioner to show compliance with condition D.13.1, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.~~

Comment 129:

Delete Condition D.13.10 requiring visible emission notations from the No. 2 AC Station Boilers 211-213 and the record keeping requirement for same in Condition D.13.12(a) because the boilers are operated to assure complete combustion and have no control equipment that could degrade. Ispat has not observed opacity from these stacks, especially since this facility is adjacent to Nos. 5 and 5 Blast Furnaces which are monitored for emissions several times per week. Renumber the remaining conditions and the references to same accordingly.

Response 129:

IDEM agrees to the changes as follows:

~~D.13.10 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~(a) Visible emission notations of the No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503 stack exhausts 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.~~

~~(c) If abnormal emissions is are observed, the Permittee shall take reasonable steps in accordance with Section C-Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

D.13.12 Record Keeping Requirements

~~(a) To document compliance with Condition D.13.10, the Permittee shall maintain records of once per shift visible emission notations of the No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503 stack exhausts.~~

(~~b~~**a**) To document compliance with Conditions D.13.4 and D.13.11, the Permittee shall maintain the following records:

(1) Records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at the No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503.

(2) Records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.

(3) Records of any compliance emissions calculations.

(~~c~~**b**) To document compliance with D.13.4 and 326 IAC 10-4-3(e)(7), the Permittee shall retain records at the source, or at a central location within Indiana for those owners or operators with unattended sources, demonstrating that the units are permanently retired for a period of five (5) years. The five (5) year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the department of the U.S. EPA. Records retained at a central location within Indiana shall be available immediately at the location and submitted to the department or U.S. EPA within three (3) business days following receipt of a written request.

(~~d~~**c**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 130 through 132:

130…For clarity, include “baghouse “ after “Iron Pigging” in Condition D.14.1(a).

131… To clarify when iron dumping is used, modify the last sentence of Condition D.14.2 as follows: “However, in an emergency or when the pig machine is not available iron dumping is used.”

132… The first sentence of Condition D.14.7 is missing some words. Modify said sentence consistent with Ispat’s previous comments as follows: “. . . stack at least once per day when the process is in operation and is venting to the atmosphere.”

Response 130 through 132:

See Changes 23 and 25.

Comment 133:

Consistent with the previous comments regarding the facility description changes to the Storage Vessels in Section D.15, the first phrase of Condition D.15.1 should be modified to state: “The 1,016,000 gallon storage tank (T-6E1) is subject . . ..”

Response 133:

Condition D.15.1 has been changed as follows:

D.15.1 **Volatile Organic Storage Vessels [**40 CFR Part 60, Subpart Kb**]** ~~(Volatile Organic Storage Vessels)~~

The 1,0~~00~~**16**,000 gallon storage tank (T-~~10~~ **6E1**) is subject to 40 CFR Part 60, Subpart Kb because the maximum capacity of the tank is greater than 40 m^3 and is used to store volatile organic liquids for which construction, reconstruction, or modification commenced after July 23, 1984. Pursuant to this rule, the Permittee must maintain records as required by 40 CFR 60.116b (a) and 60.116b (b).

Comment 134:

Consistent with the previous comments regarding the facility description changes to the Storage Vessels in Section D.15, the last phrase of the first sentence of Conditions D.15.3 and D.15.4 should both reference "tanks T11-12a, T11-12b, T11-12c, and T11-12d" rather than "tanks T-1, T-4 and T-5."

Response 134:

Conditions D.15.3 and D.15.4 have been changed as follows:

D.15.3 NESHAP Operational and equipment standards [40 CFR Part 63.63.1159, Subpart CCC] Hydrochloric acid storage vessels

The Permittee shall provide and operate, except during loading and unloading of acid, a closed-vent system for tanks ~~T-1, T-4 and T-5~~ **T11-12a, T11-12b, T11-12c, and T11-12d**. 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.15.4 Monitoring Requirements [40 CFR P art 63.1162]

The Permittee shall inspect tanks ~~T-1, T-4 and T-5~~ **T11-12a, T11-12b, T11-12c, and T11-12d** 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.

Comment 135:

(a) Consistent with the previous comments regarding the facility description changes to the Storage Vessels in Section D.15, Condition D.15.5 should be modified to reference "T-6E1" rather than "T-10."

(b) Consistent with the cited authority, delete "owner or operator" in the first sentence of Condition D.15.5 and replace it with "Permittee."

Response 135:

IDEM agrees to the changes as follows:

D.15.5 Record Keeping Requirements

Pursuant to 40 CFR Part 60.116b the requirements for tank ~~T-10~~ **T-6E1** are as follows:

(a) ~~The owner or operator~~ **The Permittee** shall keep copies of all records required by 40 CFR Part 60.116b (a), except for the record required by 40 CFR Part 60.116b (b), for at least 2 years. The record required by 40 CFR Part 60.116b(b) will be kept for the life of the source.

(b) ~~The owner or operator~~ **The Permittee** of each storage vessel as specified in 40 CFR Part

60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

Comment 136:

Delete the "(q)" in the Section D.16 Facility Description box. Section A.4 of the draft Permit sets forth the Specifically Regulated Insignificant Activities.

Response 136:

The (q) has been deleted from the description box in Section 16 and changed as follows:.

~~(q)~~ **Specifically Regulated** Insignificant Activities:

Comment 137:

Delete Condition D.16.1 because there are no air flows associated with the activities included in this condition.

Response 137:

IDEM has changed D.16.1 as follows:

D.16.1 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), ~~the particulate matter emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, conveyors,~~ grinding and machining operations shall not exceed 0.03 grains per dry standard
cubic foot (gr/dscf).

Comment 138:

Consistent with the cited authority, include "Volatile Organic liquid" before "storage vessels" at the end of Condition D.16.2.

Response 138:

Condition D.16.2 has been changed as follows:

D.16.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]

Pursuant to 326 IAC 8-9-1, the Permittee is required to keep records on the information in 326 IAC 8-9-6(a)-(b) for all **Volatile Organic liquid** storage vessels.

Comment 139:

Delete "Blast Furnace Gas Flare stacks from No. 5 and No. 6 furnaces exhausting through stack 131, nine (9) turbo blowers and five (5) electricity generators" from the first facility description included in Section E. Delete "turbo blower and cooling tower," from the second facility description included in Section E. These units do not emit NO_x emissions subject to the budget trading program.

Response 139:

IDEM agrees and has changed the Section E description box as follows:

NO_X Budget Source [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Utilities comprised of the following facilities, emission units, process equipment, and operational practices:

(1) No. 2 AC Station including Boilers 211-213, fired by blast furnace gas from No. 5 and No. 6 blast furnaces and natural gas exhausting through combustion stacks 125-130, ~~Blast Furnace Gas Flare stacks from No. 5 and No.6 blast furnaces exhausting through stack 131, nine (9) turbo blowers and five (5) electricity generators,~~ installed in 1948 and 1949

(2) No. 5 Boilerhouse including Boilers 501-503, fired by blast furnace gas from No. 7 blast furnace and mixed gas, exhausting through stack 134, ~~turbo blower and cooling tower,~~ installed in 1976

Comment 140:

Consistent with all of Ispat's comments, make all necessary changes to the Technical Support Document.

Response 140:

IDEM prefers the Technical Support Document (TSD) to remain unchanged, therefore documenting the reasoning behind the permit conditions as public noticed. This TSD addendum points out and explains the reasoning for any changes to the permit after public notice. This method provides documentation for each step in the permit process.

Comment 141:

Insert "stack" into Condition D.1.5 (Sulfur Dioxide), both (a) and (b).

Response 141:

Condition D.1.3 (was D.1.5) has been changed as follows:

D.1.3 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a)(3), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (**stack** 5) shall not exceed 0.140 pounds per MMBtu and 41.02 lbs/hour.

(b) SO_2 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (**stack** 6) shall not exceed 0.140 pounds per MMBtu and 41.02 lbs/hour.

Changes to proposed permit

The following corrections and changes have been made to the proposed permit to correct company name, personnel, rule cites and typographical errors.

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.

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 a stationary Integrated Iron and Steel Mill.

Responsible Official:	Leonard Churderewicz
Source Address:	3210 Watling Street, East Chicago, Indiana 46312
Mailing Address:	3210 Watling Street MC 8-130, East Chicago, Indiana 46312
General Source Phone Number:	(219) 399-4325 ~~Todd Mintzer~~ **Thomas Barnett**
SIC Code:	3312
County Location:	Lake County
Source Location Status:	Nonattainment for ~~SO_2, 1-hour ozone standard,~~ 8-hour ozone standard and PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories under PSD and Emission Offset Rules

Although the TSD itself will not be revised as it is a historical document and the TSD was correct at the time of public notice, the following is being provided to show how the county attainment status has been affected as a result of the 8-hour, 1-hour and SO2 designation changes.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	attainment
PM2.5	nonattainment
SO_2	~~Non~~attainment
NO_2	attainment
~~1-hour Ozone~~	~~nonattainment~~
8-hour Ozone	nonattainment
CO	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 evaluating the rule applicability relating to the 1-hour ozone standard. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~

~~(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 nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~

(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, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and

NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

~~(b) Lake County has been classified as nonattainment for SO2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~

(~~c~~**b**) Lake County has been classified as nonattainment for PM2.5 in 70 FR 943 dated has directed states 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.

(~~d~~**c**) Lake County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(e**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.

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

The source includes Mittal Steel USA Inc. - Indiana Harbor East Plant ID 089-00316, an integrated steel mill **collocated with** ~~and~~ the following on-site contractors:

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

(a) No. 5 and 6 Blast Furnace processes, with a combined estimated maximum production rate of 2,506,000 tons per year of hot iron metal, comprised of the following facilities, process equipment and operational practices:

(1) One (1) Pulverized Coal Storage Bin with ~~baghouse~~ **Bin Vent Filter** H (191), having a 400 ton storage capacity, estimated maximum throughput of 325,000 tons per year of pulverized coal, and a flow rate of 3500 acfm, exhausting through stack 191 and constructed in 1991.

(b) No. 7 Blast Furnace process is comprised of the following facilities, process equipment and operation practices:

(5) No. 7 Blast Furnace stoves (3 units) using blast furnace gas and natural gas as fuel with ~~a~~ an estimated maximum combined heat input capacity of 953 MMBtu/ hr and emissions exhausting through stack 170. Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for a blast capacity increase and the construction of a fourth (4th) stove.

(e) The No. 2 Basic Oxygen Furnace (BOF) Shop, comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling, ladle additive truck hopper loading system having an estimated maximum throughput of 328,000 tons per year of alloy and flux. Emissions from the truck hopper **are** controlled by a baghouse, which has a flow rate of 75,000-acfm exhausting through stack 150. Emissions from the alloy and flux storage and handling system are controlled by a baghouse, which has a flow rate of 50,000-acfm, exhausting through stack 151. Both baghouses were constructed in 1974.

(p) Storage Vessels:

(18) Two (2) 30,000 gallon tanks (T11-12c & T11-12d) containing regenerated

Hydrochloric Acid located west of bulk storage building No. 3 Cold Strip West, designated as Tank #4 and Tank **#5** constructed in 1999.

A.5 Fugitive Dust Sources

~~Ispat Inland Inc. Plant ID 089-00316~~ **Mittal Steel USA Inc. - Indiana Harbor East Plant (Plant ID 089-00316)** also includes Fugitive Dust Sources consisting of, but not limited to the following:

C.10 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8)]

(b) Pursuant to 326 IAC 6.8-8-8 (formerly 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 department. The Permittee shall submit the updated CCP**, if required** to IDEM, OAQ within thirty (30) days of the update.

D.0.5 Emissions units subject to the emissions limitations [326 IAC 2-2-1 (x)] [326 IAC 2-3-1 (s)] [326 IAC 2-3-1 (l)] [326 IAC 2-2-4, 5 and 6]

6. No.4 BOF shop:
   (a) No.4 BOF shop off gas controlled by scrubber exhausting to stack 38
   (b) Secondary ventilation system for No.4 BOF shop controlled by ~~scrubber~~ **a baghouse** exhausting to stack 37

D.1.1 Lake County PM10 emission requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17 (formerly 326 IAC 6-1-10.1(d)(19)), the allowable PM10 emissions from No.5 and No. 6 Blast Furnace processes shall not exceed the following:

(a) PM10 emissions from pulverized coal storage ~~bin baghouse~~ **Bin Vent Filter** H (191) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

(b) PM10 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (**stack** 5), shall not exceed 0.016 pounds/MMBtu and 4.70 pounds per hour.

(c) PM10 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (**stack** 6), shall not exceed 0.016 pounds/MMBtu and 3.64 pounds per hour.

D.1.10 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of ~~limit 326 IAC 7-4.1-11 (b)(2)~~**, the limits in Condition D.1.3** in order to document compliance with Conditions D. 1.3 and D.1.9 (a). The quarterly report 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. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

D.2.14 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1), (6)]

(a) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on the No. 7 blast furnace (West baghouse) (166) utilizing a testing method approved by the Commissioner to show compliance with conditions D.2.1, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-~~3~~-**4-**1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(b) Within thirty (30) months of issuance of this permit, or 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 TSP testing on the No. 7 blast furnace (East baghouse) (167) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.1, in accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8~~-3-~~**4-**1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

D.2.16 Particulate Control [326 IAC 2-7-6(6)]

(c) The No. 7 blast furnace casthouse west baghouse (166) for PM control shall be in operation at all times that the No. 7 blast furnace ~~is in operation~~ **is casting #3 and #4 tapholes**.

(d) The No. 7 blast furnace casthouse east baghouse (167) for PM control shall be in operation at all times that the No. 7 blast furnace casthouse ~~is in operation~~ **is casting #1 and #2 tapholes**.

.

D.3.6 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within thirty (30) months of issuance of this permit, or the date of the last valid compliance test or an alternative date as determined by OAQ, Compliance Data Section, the Permittee shall perform TSP and SO2 testing on the sinter plant windbox exhaust (S2A) using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.3.1 and D.3.3. Testing shall be performed using a test method that is listed in 326 IAC 6.8~~-3-~~**4-**1 (formerly 326 IAC 6-1-10.1(f)(2)) and is approved by the Commissioner. These tests shall be repeated at least once every two and a one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance

D.3.9 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the Sinter Plant windbox main baghouse stack discharge end baghouse stack ~~and upper screening station baghouse~~ 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.

D.5.18 Record Keeping Requirements

(b) In order to document compliance with condition D.5.12 **(a) and D.5.12 (b)**, the Permittee shall maintain **records of** the pressure drop across the scrubbers and flowrate once per day during **the blow portion of the steel production cycle and with condition D.5.12(c), the Permittee shall maintain records of the pressure drop across the scrubbers and flowrate once per day during** normal operation.

D.5.19 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of ~~limit 326 IAC 7-4.1-11 (b)(2),~~ **the limits in Condition D.5.4** in order to document compliance with Conditions D. 5.4 and D.5.18 (d). The quarterly report 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. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

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

Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No. 4 BOF (stack 38) utilizing a testing method approved by the Commissioner to show compliance with conditions D.6.3 and D.6.4, in

accordance with Section C - Performance Testing. Testing shall be performed using a test method that is listed in 326 IAC 6.8-~~3~~ **4-**1 (formerly 326 IAC 6-1-10.1(f)(2)) and as approved by the Commissioner. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance

D.6.18 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MM Btu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of ~~limit 326 IAC 7-4.1-11 (b)(2),~~ **the limits in Condition D.6.6** in order to document compliance with Conditions D. 6.6 and D.6.16 (d). The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.7.13 Reporting Requirements

A quarterly report shall be submitted containing the calculated SO_2 emission rate in lb/MMBtu for each facility for each day in quarter, total fuel usage for each type at each facility each day and any violations of ~~limit 326 IAC 7-4.1-11 (b)(2),~~ **the limits in Condition D.7.4** in order to document compliance with Conditions D.7.4 **and D.7.11(c)**. The quarterly report 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.8.8 Carbon Monoxide Emissions [326 IAC 2-2]

~~(a)~~ Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the required amount of oxygen shall be supplied to the EAF to ensure that the carbon monoxide emissions shall not exceed 4.67 pounds per ton.

~~(b) Pursuant to MSM 089-10601-00316 issued March 8, 1999, the CO emissions from the vacuum degasser shall not exceed 0.17 pound per ton of steel throughput to the degasser.~~

~~These limits~~ **This limit** will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration)

D.12.8 Emission Offsets [326 IAC 2-3]

(c) Pursuant to CP 089-4940, issued on June 19, 1996, the 234.5 ton per year NOx reduction at No. 5 Galvanizing Line radiant tube furnaces required by 326 IAC 2-3-3(a) (2) shall be achieved by the shutdown of the following: 7.2 ton per year from open coil annealing furnace, 87.2 ton per year from No. 2 Bloomer, 67.7 ton per year from No. 1 Galvanizing line, 50.6 ~~t~~ ton per year from No. 4 Slab Pits 1-18 and 22 ton per year from No. 8 Coke Battery.

D.13.5 Carbon Monoxide (CO) - Best Available Control Technology [326 IAC 2-2-3]

(b) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under condition D.13.10 show that the CO emission limitations in condition D.13.5 are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emissions limitations in D.13.~~3~~**5**a). The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to this permit modification.

F.1 Fugitive Dust Emissions [326 IAC 6.8-10]

(8) Material Processing Facilities.

(A) The PM_{10} stack emissions from each material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration limitation shall be determined using the test methods found in 326 IAC 6.8-~~3~~-**4-**1 (formerly 326 IAC 6-1-10.1(f)). Compliance with the opacity limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

Removed the following report:

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT~~
~~OFFICE OF AIR MANAGEMENT~~
~~COMPLIANCE DATA SECTION~~

~~Part 70 Quarterly Report~~

~~Source Name: Mittal Steel USA Inc. - Indiana Harbor East~~

~~Source Address: 3210 Watling Street, East Chicago, Indiana 46312~~
~~Mailing Address: 3210 Watling Street MC 8-130, East Chicago, Indiana 46312~~
~~Part 70 Permit No.: T089-6577-00316~~
~~Facility: Space Heating (Source ID 256) at No. 6 CCL~~
~~Parameter: Natural Gas Usage~~
~~Limit: 300 million cubic feet (MMCF) per twelve (12) consecutive month period~~

~~YEAR:~~

~~Month~~	~~Natural Gas Usage This Month (MMCF)~~	~~Natural Gas Usage Previous 11 Months (MMCF)~~	~~Natural Gas Usage 12 Month Total (MMCF)~~

~~☐ No deviation occurred in this quarter.~~

~~☐ Deviation/s occurred in this quarter.~~
~~Deviation has been reported on:~~

~~Submitted by:~~
~~Title / Position:~~
~~Signature:~~
~~Date:~~
~~Phone:~~

D.12.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart 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.

D.12.2 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 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 November 12, 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(b), the Permittee must comply with these requirements on and after September 13, 2007.

(b) The following emissions unit comprises the affected source for the large gaseous fuel subcategory:

No. 3 Galvanizing Line Radiant Tube Reducing Furnace (13 MMBtu/hr)
No. 4 Aluminizing Line Radiant Tube Reducing Furnace (19 MMBtu/hr)
No. 5 Galvanizing Line Radiant Tube Reducing Furnace (113 MMBtu/hr)
No. 3 Continuous Annealing and Aging Furnaces (85 MMBtu/hr)
No. 5 Batch Annealing Furnaces (136 MMBtu/hr)

(c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.

(d) 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.

D.12.~~1~~**3** Particulate Matter [326 IAC 6.8-6]

D.12.~~2~~**4** Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

D.12.~~3~~**5** No. 4 Aluminizing Line Radiant Tube Reducing Furnace Limitations

D.12.~~4~~**6** Opacity

D.12.~~5~~**7** Sulfur Dioxide (SO2) [326 IAC 7-4.1-1]

D.12.~~6~~**8** Nitrogen Oxide (NOx) [326 IAC 2-2]

D.12.~~7~~**9** Carbon Monoxide (CO)[326 IAC 2-2]

D.12.~~8~~**10** Emission Offsets [326 IAC 2-3]

D.12.~~9~~**11** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

D.12.~~10~~**12** Particulate Matter (PM)

D.12.13 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 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 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 shall be submitted no later than nine (9) months prior to September 13, 2007.

(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

G.1.1 General Provisions Relating to 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, except when otherwise specified by Table 4 to 40 CFR 63, Subpart FFFFF. The Permittee must comply with the following requirements:

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, blast furnace, and basic oxygen process furnace (BOPF) shop at your integrated iron and steel manufacturing facility.
(c) This subpart covers emissions from the sinter plant windbox exhaust, discharge end, and sinter cooler; the blast furnace casthouse; and the BOPF shop including each individual BOPF and shop ancillary operations (hot metal transfer, hot metal desulfurization, slag skimming, and ladle metallurgy).
(d) A sinter plant, blast furnace, or 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.

§ 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 emissions 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.

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 emissions from a sinter plant discharge end or blast furnace casthouse or 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.
(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~~**7**) 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 **baghouses equipped with** bag leak detection systems **or continuous opacity monitoring systems (COMS)**. In the event a bag leak detection system alarm is triggered **or emissions from a baghouse equipped with a COMS exceed an hourly average opacity of 5 percent,** 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 action procedures for venturi scrubbers equipped with continuous parameter monitoring systems (CPMS). In the event a venturi 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.

§ 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.~~

(a) You must conduct subsequent performance tests to demonstrate compliance with applicable PM and opacity limits in Table 1 to this subpart at 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 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 or 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).

(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.

(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.

(c) To determine compliance with the applicable opacity limit in Table 1 to this subpart for a sinter plant discharge end or 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.

(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.

(e) To determine compliance with the applicable opacity limit in Table 1 to this subpart for 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 site 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~~ **may** ~~establish site-specific operating limits according to the procedures in paragraphs (b)(1) and (2) of this section.~~ **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~~, or electrostatic precipitator~~ 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)~~ **(b)**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~~**e**) 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~~**e**)(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)~~.~~**; and**
   (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~~ **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(~~f~~**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 or blast furnace casthouse or 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 other contol 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 or blast furnace casthouse, 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.

(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.~~

~~(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).~~

(b) Except as provided in paragraph (b) (3) of this subsection, 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 requirement 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)(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.

(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(d); 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(e).

§ 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,~~ **baghouse equipped with a bag leak detection system according to §63.7790 (b) (1),** 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~~ **meeting** the requirements in paragraphs (c)(1) ~~and~~ **or** (2) **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 to document conformance with these requirements

(4) Maintaining records of the time you initiated corrective actions 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.

(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.

(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(~~d~~**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~~**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 precipator 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 actions 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), y**~~Y~~ou 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).
  (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. **This definition does not include vacuum degassing.**
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.~~ **You must not cause to be discharged to the atmosphere any emissions that exhibit opacity greater than 10 percent (6-minute average).**
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).
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**\; 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 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	You must not cause to be discharged at a new or existing BOPF shop 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 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 an 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 device does not apply to discharges inside a building or structure housing the discharge end at an existing sinter plant, inside the 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 . . .
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).**
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 exceed 0.01 gr/dscf; and c. 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).

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; d. 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; and e. 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.
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.
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.
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(d), 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 . . .
1. Each windbox exhaust stream at an existing sinter plant...	a. Maintaining emissions of particulate matter at or below 0.4 lb/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)~~. **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** ~~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~~ ~~c. Conducting subsequent performance sinter plant tests at least twice during each term of your title V operating permit (at midterm and renewal).~~ **a. Maintaining the opacity of emissions that exit any sinter cooler at or below 10 percent (6-minute average); and** **b. Conducting subsequent performance tests at the frequencies specified in § 63.7821**
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 the frequencies specified in § 63.7821** ~~least twice during each term of your title V operating permit (at midterm and renewal)~~.
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 an 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** ~~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 gr/dscf at an existing BOPF **or 0.003 gr/dscf for a new BOPF;** and
	c.	Conducting subsequent performance tests **at the frequencies specified in § 63.7821** ~~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 0.01r/dscf at an existing BOPF shop **or 0.004 gr/dscf for a new BOPF shop**; and
	d.	Conducting subsequent performance tests **at the frequencies specified in § 63.7821** ~~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
	d.	Conducting subsequent performance tests at **the frequencies specified in § 63.7821** ~~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	No	Subpart FFFFFspecifies **methods**

	VE Standards		**and procedures for determining compliance with opacity emission and operating limits** ~~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 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)-(e), (c)(7)-(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), (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 (CMS) 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)-(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 electrostatic precipitators~~.
§ 63.10(b)(2) (xi)-(xii)	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	

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:	Ispat Inland, Inc.
Source Location:	3210 Watling Street, East Chicago, Indiana 46312
County:	Lake
SIC Code:	3312
Operation Permit No.:	T089-6577-00316
Permit Reviewer:	Teresa Freeman

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from Ispat Inland, Inc. relating to the operation of a stationary integrated steel mill.

Source Definition

Ispat Inland, Inc. is an integrated steel mill consists of a source with on-site contractors:

(a) Ispat Inland, Inc. (Plant ID 089-00316), the primary operation, is located at, 3210 Watling Street, East Chicago, Indiana and

(b) Beemsterboer Slag and Ballast Corp. (Plant ID 089-00356), the on-site contractor (a slag crushing and sizing operation), is located at 3210 Watling Street, East Chicago, Indiana;

(3) East Chicago Recovery (Plant ID 089-00358), the on-site contractor (a briquetting facility), is located at 3236 Watling Street, East Chicago, Indiana.

(4) Heckett MultiServ (Plant ID 089-00367), the on-site contractor (a slag and kish processing plant and scarfing operation), is located at 3236 Watling Street, East Chicago, Indiana;

(5) Oil Technology, Inc. (Plant ID 089-00369), the on-site contractor (a used oil recycling facility), is located at 3236 Watling Street, East Chicago, Indiana;

(6) Mid Continent Coal and Coke (Plant ID 089-00371), the on-site contractor (a metallurgical coke separation facility), is located at 3236 Watling Street, East Chicago, Indiana;

(7) Indiana Harbor Coke Company (IHCC) (Plant ID 089-00382), the on-site contractor (a heat recovery coal carbonization facility), is located at 3210 Watling Street, East Chicago, Indiana 46312;

(8) Cokenergy, Inc.(Plant ID 089-00383), the on-site contractor (a heated gas steam from coal carbonization operation), is located at 3210 Watling Street, East Chicago, Indiana;

(9) LAFARGE Canada, Inc. (Plant ID 089-00458), the on-site contractor (a slag granulator and pelletizer operation), is located at 3210 Watling Street, East Chicago, Indiana

IDEM has determined that Ispat Inland, Inc. and each of the on-site contractors are under the common control of Ispat Inland Inc. These plants are considered one source due to contractual control. Therefore, the term “source” in the Part 70 documents refers to both Ispat Inland, Inc. and

the on-site contractors as one source.

Separate Part 70 permits will be issued to Ispat Inland, Inc. and each on-site contractor, solely for administrative purposes.

Company Name	TV Permit Number
Ispat Inland, Inc.	089-6577- 00316
Beemsterboer Slag and Ballast Corp.	089-6580-00356
East Chicago Recovery	089-6583-00358
Heckett MultiServ	089-6581-00367
Oil Technology, Inc.	089-6579-00369
Mid Continent Coal and Coke	089-6582-00371
Indiana Harbor Coke Company	089-11311-00382
Cokenergy, Inc.	089-11135-00383
LAFARGE Canada, Inc.	089-14766-00458

Permitted Emission Units and Pollution Control Equipment

Ispat Inland, Inc. consists of the following permitted emission units and pollution control devices:

(a) No. 5 and 6 Blast Furnace processes, with a combined maximum production rate of 2,506,000 tons per year of hot iron metal, comprised of the following facilities, process equipment and operational practices:

(1) One (1) Pulverized Coal Storage Bin with baghouse H (191), having a 400 ton storage capacity, maximum throughput of 325,000 ton per year of pulverized coal, and a flow rate of 3500 acfm, exhausting through stack 191 and constructed in 1991.

(2) No. 5 Blast Furnace, installed in 1942, consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 5 Blast Furnace Stoves (3 units) with a maximum combined heat input rate of 293 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 5 Blast Furnace and exhausting combustion emissions through stack 5.

(C) No. 5 Blast Furnace with an integral gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 5 Blast Furnace Stoves.

(D) No. 5 Blast Furnace Casthouse with casting emissions controlled by two (2) No. 5 Blast Furnace Casthouse Collection System Scrubbers having a flow rate of 40,000 acfm, exhausting through stack 1 with construction upgrades in 1986 and 1991.

(E) One (1) No. 5 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(3) No. 6 Blast Furnace, installed in 1942, consisting of:

(A) One (1) Stockhouse, including coke screening.

(B) No. 6 Blast Furnace Stoves (4 units) with a maximum combined heat input rate of 227 MMBtu/hr, using natural gas and blast furnace gas as fuel, sending hot air blast to No. 6 Blast Furnace and exhausting combustion emissions through stack 6.

(C) No. 6 Blast Furnace with an integral gas cleaning system and blast furnace gas combusted at either No. 2AC station or the No. 6 Blast Furnace Stoves.

(D) No. 6 Blast Furnace Casthouse with casting emission controlled by No. 6 Blast Furnace Casthouse Collection System Scrubber having a flow rate of 40,000 acfm, exhausting through stack 2, with a construction upgrade in 1986 on this equipment.

(E) No. 6 Blast Furnace Casthouse Roof Monitor.

(F) Slag pots and pits for handling slag waste.

(b) No. 7 Blast Furnace process is comprised of the following facilities, process equipment and operation practices:
(Significant Source Modification 089-16966-00316, issued on November 26, 2003 allows for the maximum production rate to increase to 4,417,00 tons per year of molten metal)

(1) Raw material handling and stockhouse material handling for receiving, storage and delivery of blast furnace raw material. The handling operation has a maximum throughput of 6,061,920 tons of iron ore per year; stored in four (4) storage bins with 8027 tons total capacity; 1,514, 604 tons of coke per year, stored in six (6) storage bins with 1766 ton total capacity; and 1,082,736 tons of flux and miscellaneous material per year, stored in four (4) storage bins with 3300 ton total capacity. Emissions are controlled by two (2) baghouses: (1) identified as 168-stockhouse pellet baghouse, having a flow rate of 82,500 acfm and (2) identified as 172-stockhouse coke handling baghouse having a flow rate of 27, 500 acfm.

(2) Coke screening operation with emissions controlled by a baghouse, identified as 169, having a flow rate of 47,116 acfm and a screening capacity of 400 tons per hour. (This equipment is not currently operating)

(3) One (1) blast furnace, identified as No. 7, constructed in 1980 with emissions controlled by a gas cleaning system and equipped with three (3) flares, each with a maximum capacity of 1.15 MMBtu per hour exhausting through stack 195.

(4) No. 7 Blast Furnace Casthouse constructed in 1980 with casting emissions controlled by two (2) baghouses: identified as 166 (West baghouse) having a flow rate of 500,000 acfm; and 167 (East baghouse) having a flow rate of 300,000 acfm. Emissions from No. 7 blast furnace casthouse are also controlled by trough and runner covers and hoods over the tap holes and pugh ladle addition points.

(5) No. 7 Blast Furnace stoves (3 units) using blast furnace gas and natural gas as fuel with a maximum combined heat input capacity of 953 MMBtu/ hr with emissions exhausting through stack 170. Significant Source Modification 089-

16966-00316, issued on November 26, 2003 allows for the construction of a fourth (4th) stove.

(6) One (1) Casthouse Roof Monitor 171.

(7) One (1) coke transfer tower, identified as ES268, installed in 1997, with a maximum throughput of 4020 tons of dry coke per day, enclosed and controlled by one (1) baghouse, and exhausting inside the tower.

(8) One (1) coke transfer point, identified as ES269, installed in 1997, with a maximum throughput of 4020 tons of dry coke per day, enclosed and controlled by one (1) baghouse, exhausting inside the tower.

(9) Slag pits

(c) One (1) Sinter Plant, constructed in 1959, with a maximum raw material usage of 1.4 million tons per year comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling and blend site.

(2) One (1) sinter plant windbox, controlled by the main baghouse with emissions exhausting through stack 7.

(3) One (1) sinter plant discharge end, controlled by the discharge end baghouse, and one (1) cooler station, partially controlled by the discharge end baghouse, with emissions exhausting through stack 8, installed in 1959.

(4) One (1) sinter plant upper screening station, with conveyors, screen hoods, and duct system routed to and controlled by the upper screening station baghouse with emissions exhausting through stack 11. This equipment was constructed in 1998.

(5) Sinter loading, unloading, and transfer operations***.***

(d) One (1) pulverized coal injection (PCI) system with a maximum capacity of 132 tons per hour for Nos. 5, 6 and 7 blast furnaces, constructed in 1991, comprised of the following facilities, process equipment, and operational practices:

(1) Raw coal handling, including rail car unloading facilities and 50,000 ton capacity storage pile (stack 192).

(2) System A- RC-1 and RC-2 conveyors with a maximum throughput of 132 tons per hour, used to move coal to raw coal storage bins, controlled by baghouse A to control emissions at transfer points and exhausting through stack 185.

(3) System C- Flexiwall conveyor and two (2) Raw Coal Storage Bins with a storage capacity of 750 tons each, controlled by baghouse C and exhausting through stack 186.

(4) System D and E-Two (2) 66 ton per hour Pulverizers, with a recovery cyclone and baghouse D and E in series on each unit exhausting through stack 187 and 188, respectively.

(5) System F and G- Two (2) 66 ton per hour Conveyors to two (2) Pulverized Coal Storage Bins with a total storage capacity of 30,000 cubic feet, each controlled by a baghouse F and G, exhausting through stack 189 and 190, respectively.

(e) The No. 2 Basic Oxygen Furnace (BOF) Shop, comprised of the following facilities, process equipment, and operational practices:

(1) Raw material handling, truck and ladle hopper loading system having a maximum throughput of 328,000 tons per year of alloy and flux. Emissions from the truck and ladle hopper controlled by a baghouse, which has a flow rate of 75,000-acfm exhausting through stack 150. Emissions from the alloy and flux storage and handling are controlled by a baghouse, which has a flow rate of 50,000-acfm, exhausting through stack 151. Both baghouses were constructed in 1974.

(2) One (1) Hot metal station containing charging aisle, reladling, desulfurization, and slag skimming operations having a maximum capacity of 4,029,600 tons of hot metal per year. Captured emissions are controlled by a baghouse having a flow rate of 360,000-acfm, exhausting through stack 152. Original construction was 1974 and an upgrade was completed in August 1994 as part of a consent decree.

(3) Two (2) BOFs, identified as No. 10 and No. 20, and operations including charging, oxygen blowing, tapping, and alloy with a total maximum capacity of 4,543,600 tons of hot metal and scrap per year. Captured emissions controlled by two (2) off-gas scrubber systems with flares having a flow rate of 1,500,000-acfm each, exhausting through flare stacks 147 and 148. Construction commenced on this equipment in 1971. Uncaptured emissions exhausting through roof monitor 153 and charging and miscellaneous furnace emissions exhausting through a secondary ventilation scrubber having a flow rate of 194,000-acfm, exhausting through stack 149. The Off-gas scrubber systems were constructed in 1974 and the Secondary Vent scrubber was upgraded in 2003.

(4) One (1) ladle metallurgy facility station consisting of alloy addition, electric arc reheat, slag skimming, and raw material handling specifically for the metallurgy station with a maximum throughput of 4,029,600 tons per year of steel. Captured emissions are controlled by a baghouse having a flow rate of 135,000-acfm, exhausting through stack 154. This equipment was constructed in 1985.

(5) One (1) Continuous casting operations consisting of a slab caster, and two (2) torch cutoff machines. Emissions from the caster exhaust through the caster fume baghouse, which has a flow rate of 171,000 acfm, exhausting through stack 159. Steam from the water spray cooling exhausts through three (3) vents along the caster, identified as stacks 160, 161, and 162. Fugitive emissions from the casthouse exhaust through a roof monitor, identified as 158. This equipment was constructed in 1989. (Bloom caster at this site is permanently shutdown)

(6) A tundish dump and repair station with emissions controlled by a baghouse, which has a flow rate of 50,000 acfm, exhausting through stack 156. This equipment was constructed in 1989.

(7) Miscellaneous natural gas combustion used for ladle preheating, exhausting through stack 157, and tundish and ladle shroud preheating, exhausting through No.2 BOF Shop Roof Monitor 155.

(8) Slag skimming into slag pots.

(f) No.4 Basic Oxygen Furnace (BOF) comprised of the following facilities, process equipment, and operational practices:

(1) Flux, alloy and waste oxide briquettes (WOB) unloading, hopper house and storage/handling facility.

(2) Scrap metal unloading/storage (scrap yard) and scrap metal charging box.

(3) Two (2) Hot metal transfer and desulfurization operations having a maximum capacity of 4,222,320 tons of hot metal per year with captured emissions controlled by two (2) baghouses having flow rates of 190,000 and 220,000 acfm, exhausting through stacks 26 and 27. This equipment was constructed in 1977.

(4) Two (2) BOFs, identified as No. 50 and No. 60 and operations including charging, blowing, tapping, alloy addition, and slag skimming with a total maximum capacity of 5,676,366 tons of hot metal and scrap per year with uncaptured emissions exhausting through a roof monitor (stack 29), and captured emissions controlled by a four (4) off-gas scrubber system, exhausting through stack 38. This equipment was constructed in 1966. Charging, tapping, and miscellaneous furnace emissions are controlled by a secondary ventilation baghouse having a flow rate of 600,000 acfm, exhausting through stack 37. This equipment was constructed in 1977.

(5) Raw material handling system for the RHOB facility, including hopper house, alloy and flux storage bins having a maximum throughput of 4,700,000 tons per year and dust emissions controlled by a baghouse having a flow rate of 48,100 acfm and exhausting through stack 33.

(6) One (1) RHOB vacuum degasser with natural gas-fired flare for exhaust gas control with a maximum throughput of 4,686,600 tons/year of steel, exhausting through stack 32. This equipment was constructed in 1987.

(7) Ladle and tundish preheaters (stack 36).

(8) One (1) argon stirring station and one (1) continuous caster with tundish, caster mold, and casting machine with cutoff, with steam vents exhausting through stacks 24 and 25.

(9) Torch cutoff exhausting into the building (stack 31).

(10) Maintenance and miscellaneous operations associated with the BOF.

(11) Furnace Additives Transfer House Baghouses, exhausting inside the buildings (stacks 28 and 35).

(12) Slag dumping.

(g) No. 1 Lime Plant was constructed in 1973 with a maximum capacity of 509,400 tons per year of lime comprised of the following facilities, process equipment, and operational practices:

(1) Limestone unloading, storage and screening area.

(2) Two (2) Limestone preheaters, two (2) rotary kilns with a maximum heat input rate of 207 MMBtu/hr fueled by natural gas or residual fuel oil, with exhaust from kilns routed back to preheaters and then to a set of multicyclones. The emissions from the multicyclones are controlled by two (2) baghouses exhausting through stacks 45 and 49.

(3) Dust fines are sent to a dust bin, with emissions controlled by a baghouse and exhausting through stack 46.

(4) Ten (10) storage silos receive a maximum of 569,400 tons per year of finished lime, with fines controlled by lime handling baghouses and exhausting through

stack 47.

(5) Fugitive control project including loadout spout on rejection bin controlled by existing kiln baghouse, preheater area enclosure around two (2) kiln feed hood/ ram loadout dribbles, preheater area loading spouts for truck loading with displaced air controlled by existing kiln baghouse and ten (10) loading spouts with emissions controlled by baghouse and truck loadout area with exhaust controlled by loadout baghouse and exhausting through stack 48. This equipment was upgraded in 1997.

(h) No. 1 Electric Arc Furnace comprised of the following facilities, process equipment, and operational practices:

(1) Bulk alloy handling: Raw material unloading, piling, and transporting of scrap metal, fluxes, and alloys.

(2) Raw material charging to the electric arc furnace.

(3) One (1) electric arc furnace with excentric bottom tapping (EBT), having a maximum annual capacity of 975,000 tons with emissions controlled by a baghouse having a flow rate of 500,000 acfm exhausting through stack 141. This equipment was constructed in 1989 and upgraded in 1996.

(4) One (1) ladle metallurgical station constructed in 1993 with a maximum annual capacity of 975,900 tons with emissions controlled by a baghouse having a flow rate of 40,000 acfm exhausting through stack 143.

(5) Five (5) regenerative horizontal natural gas ladle preheaters constructed in 1990, each with two (2) 7.5 MMBtu per hour (in the regenerative mode) burners with emissions uncontrolled exhausting through stack 140.

(6) One (1) continuous casting and cooling operations exhausting through stacks 144 and 145, respectively.

(7) One (1) vacuum tank degasser with maximum capacity of 111.3 tons of steel per hour, exhausting to stack 208. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)

(8) One (1) natural gas fired boiler, with maximum capacity of 41.5 MMBtu per hour, exhausting to stack 207. (This equipment has not been constructed-minor source modification 089-10601-00316 was issued on March 8, 1999.)

(9) Slag handling operations.

(10) EAF Area Roof Monitor.

(i) Direct Reduced Iron (DRI) storage and conveying system constructed in 2001, comprised of the following facilities, process equipment, and operational practices:

(1) One (1) enclosed truck/trailer unloading area identified as 213 with a maximum throughput of 400,000 tons per year of DRI.

(2) A DRI conveyor system consisting of:

(A) One (1) 20,000 cu. ft. capacity enclosed DRI storage silo with excess air vented through the roof and then through one of the bin vents.
(B) One (1) horizontal trough belt stocking conveyor.

(C) Multiple Delivery Conveyors.

(3) Emission control system for (11) and (12) to remove particulate matter consisting of:

(A) Bin Vent Filter No. 1 (210)
(B) Bin Vent Filter No. 2 (211)
(C) Bin Vent Filter No. 3 (212)

(j) 80" Hot Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) No. 4 Walking Beam Furnace, with a maximum heat input rate of 611 MMBtu/hr, equipped with low NOx burners and using natural gas as fuel, exhausting through stack 101 and 102, installed in 2001.

(2) One (1) No. 5 Walking Beam Furnace, with a maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 107, installed in 1995.

(3) One (1) No. 6 Walking Beam Furnace, with a maximum heat input rate of 685.6 MMBtu/hr, exhausting through stack 108, installed in 1995.

(4) One (1) Hot Rolling Mill Operation, including roughing mill with cooling water spray, crop shear and finishing stands exhausting to roof monitor 109.

(k) 12" Bar Mill comprised of the following facilities, process equipment, and operational practices:

(1) One (1) Billet Inspection Line Shotblaster, installed in 1994 with emissions controlled by a baghouse having a maximum flow rate of 5000 acfm and exhausting to roof monitor 90.

(2) One (1) Billet Grinding installed in 1977 exhausting through stack 87.

(3) One (1) natural gas fired Billet Reheat Furnace, installed in 1977, having a maximum heat input of 375 MMBtu/hr, exhausting through stack 89

(4) One (1) 23 Stand Rolling Mill exhausting to roof monitor 88.

(l) No. 3 Cold Strip Mill comprised of the following facilities, process equipment, and operational practices:

(1) No. 4 Pickling Line, constructed in 1958, including acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 178.

(2) No. 5 Picking Line, including scale breaker mill, acid tanks and cascade rinse box with emissions controlled by a scrubber exhausting through stack 176.

(3) 56 inch Tandem Mill (4 Stands) controlled by a mist eliminator exhausting through stack 177.

(4) 80 inch Tandem Mill (5 Stands) controlled by a mist eliminator exhausting through stack 175.

(5) Temper Mill No. 28 exhausting through stack 180.

(6) Temper Mill No. 29 exhausting through stack 181.

(m) Coated Products comprised of the following facilities, process equipment, and operational practices:

(1) No. 3 Galvanizing Line constructed in 1955, including:

(A) One (1) natural gas fired Non-Oxidizing Furnace with a maximum heat input of 62 MMBtu/hr, equipped with recuperators waste gas burners exhausting through stack 81.

(B) One (1) natural gas fired reducing furnace with a maximum heat input of 12.8 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented through stack 81A.

(2) No. 5 Galvanizing Line constructed in 1996, including:

(A) One (1) natural gas fired Radiant tube reducing furnace utilizing recuperative radiant tube burners with a maximum heat input of 74.9 MMBtu/hr, exhausting through stack 182.

(B) One (1) roll preheater and one (1) natural gas fired Galvanneal Furnace with a maximum heat input of 112.6 MMBtu/hr, exhausting through stack 182A.

(3) No. 4 Aluminizing Line constructed in 1990, including:

(A) One (1) natural gas fired Oxidizing Furnace with a maximum heat input of 27 MMBtu/hr exhausting through stack 84.

(B) One (1) natural gas fired 4-line radiant tube reducing furnace section with a maximum heat input of 19.14 MMBtu/hr, equipped with low NOx twin regenerative burners, exhausting through stack 84.

(C) hot dip Al/Si Pot, roll preheater and premelt furnace.

(4) No. 1 Normalizer constructed in 1994, including:

(A) One (1) natural gas fired flame heating furnace with 139 natural gas fired Eclipse SER burners with a total heat input of 31.652 MMBtu/hr exhausting through stack 183

(B) One (1) natural gas fired radiant tube heater section with a maximum heat input of 28 MMBtu/hr annealing furnace exhausting through stack 183

(C) One (1) acid cleaning tank using hydrochloric acid and one (1) cascade rinse tank with emissions controlled by a fume scrubber and exhausting through stack 184 (facility is presently decommissioned).

(5) No. 3 Continuous Anneal Line constructed in 1982, including:

(A) One (1) natural gas fired Annealing Furnace and One (1) natural gas fired Age Furnace with a total maximum heat input of 85 MMBtu/hr, hydrogen and nitrogen (static atmosphere), vented through stack 173.

(B) One (1) acid cleaning tank using hydrochloric acid with emissions controlled by a fume scrubber and exhausting through stack 174.

(6) Batch Anneal Facilities including:

(A) No. 5 Batch Anneal constructed in 1958, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with a maximum heat input of 136 MMBtu/hr exhausting through stack 112.

(B) No. 6 Batch Anneal constructed in 1970, equipped with annealing furnaces and hydrogen anneal bases, purge and inner cover with a maximum heat input of 205 MMBtu/hr exhausting through stack 113.

(n) Utilities comprised of the following facilities, process equipment, and operational practices:

(1) No. 2 AC Station including:

(A) Three (3) Boilers identified as 211-213, fired by natural gas and blast furnace gas from No. 5 and No. 6 blast furnaces:

(i) Boiler 211 with a maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 125 and 126.

(ii) Boiler 212 with a maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 127 and 128.

(iii) Boiler 213 with a maximum heat input of 468 MMBtu/hr, installed in 1949 exhausting through stacks 129 and 130.

(B) Two (2) Blast Furnace Gas Flares to burn excess blast furnace gas from No. 5 and No. 6 Blast Furnaces exhausting through stack 131, nine (9) turbo blowers and five (5) electricity generators.

(2) No. 5 Boilerhouse installed in 1976, including Boilers 501-503 fired by blast furnace gas from No. 7 blast furnace and mixed gas, each with a maximum heat input of 520 MMBtu/hr exhausting through stack 134. The boilers produce steam, which is sent through three (3) turbo blowers and a cooling tower for plant use and for the production of blast air and electrical power generation.

(o) Shops comprised of the following facilities, process equipment, and operational practices:

(1) Mold Foundry Building: Pugh Ladle Car Preparation and Iron Pigging including pugh ladle dekishing, and pugh ladle drying fired by natural gas. Pigging and lancing emissions are controlled by mold foundry baghouse exhausting through stack 43.

(2) No. 6 Roll shop for 12 inch bar mill including shotblaster with emissions controlled by a baghouse and exhausting through stack 200.

(3) Electric Shop including shotblaster with emissions controlled by a baghouse and exhausting through stack 201, blaster baghouse unloading, paint booth, varnish dip tanks and undercutting booth.

(4) No. 4 Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 203, Wheelabrator shotblaster with emissions controlled by a baghouse and exhausting through stack 204.

(5) No. 4 A Roll Shop including Ervin shotblaster with emissions controlled by a baghouse and exhausting through stack 205 and Pangborn shotblaster with

emissions controlled by a baghouse and exhausting through stack 206.

(6) No. 5 Roll Shop.

(7) Mobile Equipment shop including refrigerant recovery and parts cleaning.

(8) Equipment Repair Shop including Machine Shop (Plant 2).

(9) Mason Building Shop.

(10) Refrigeration Shop.

(11) Fabrication and Repair Shop (Plant 1).

(p) Storage Vessels:

(1) Two (2) 5,000 gallon tanks (T-1) containing raw 30% hydrochloric acid (HCl) constructed in 1990.

(2) One (1) 135,000 gallon tank (T-2) for recycled oil (used for fuel) constructed in 1973.

(3) One (1) 20,000 gallon tank (T-3) containing #2 fuel oil constructed in 1972.

(4) Two (2) 30, 790 gallon tanks (T-4) containing 20% regenerated HCl constructed in 1990.

(5) Two (2) 30,560 gallon tanks (T-5) containing 20% regenerated HCl constructed in 1990.

(6) One (1) 100,000 gallon tank (T-6) containing #2 fuel oil, designated as No. 23 tank constructed in 1978.

(7) Two (2) 12,500 gallon tanks (T-7 and T-8) containing #6 fuel oil constructed in 1970.

(8) One (1) 20,000 gallon tank (T-9) containing #6 fuel oil constructed in 1981.

(9) One (1) 1,000,000 gallon tank (T-10) containing #6 fuel oil, designated as No.1 tank constructed in 1992.

(10) One (1) 100,000 gallon tank (T-11) containing #6 fuel oil, designated as No. 17 tank constructed in 1972. This tank no longer in use.

(11) One (1) 114,300 gallon tank (T-12) containing #6 fuel oil, designated as No. 18 tank constructed in 1977.

(12) One (1) 62,208 gallon tank (T-13) containing #6 fuel oil, designated as No. 19 tank constructed in 1965.

(13) One (1) 1,000,000 gallon tank (T-14) containing #6 fuel oil, designated as No. 2 tank constructed in1976.

(14) One (1) 500,000 gallon tank (T-15) containing #6 fuel oil, designated as No. 22 tank constructed in 1977.

(15) One (1) 1,000,000 gallon tank (T-16) containing #6 fuel oil, designated as No. 3 tank constructed in 1976.

(16) One (1) 500,000 gallon tank (T-17) containing #6 fuel oil, designated as No. 4 tank

constructed in1972.

(17) One (1) 12,000 gallon tank (T-18) containing bunker oil (fuel oil) constructed in 1970.

(18) One (1) 20,000 gallon tank (T-19) containing reclaim oil constructed in 1970.

(q) A continuous coating line (CCL No. 6) with a maximum throughput of 600,000 tons per year, comprised of the following facilities, process equipment, and operational practices: (This equipment has not been constructed)

(1) One (1) electrical resistance welder, exhausting inside the building.

(2) One (1) alkali cleaning system, consisting of electrolytic and sodium hydroxide dunk tanks, and a brush scrubbers rinse tank, and exhausting inside the building.

(3) One (1) natural gas-fired strip dryer, identified as 250, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.

(4) One (1) natural gas-fired radiant tube furnace heating section, identified as 251A, with a heat input capacity of 102.05 million Btu per hour, and exhausting through one (1) stack, identified as 251.

(5) One (1) natural gas-fired radiant tube furnace soaking section, identified as 251B, with a heat input capacity of 5.4 million Btu per hour, and exhausting through one (1) stack, identified as 251.

(6) Two (2) zinc pots, one (1) aluminum pot, one (1) zinc premelt pot, and one (1) aluminum zinc premelt pot, with electric induction heating for each pot, and all exhausting inside the building.

(7) One (1) natural gas-fired galvanneal soaking furnace, identified as 252, with a heat input capacity of 6.5 million Btu per hour, and exhausting inside the building.

(8) One (1) natural gas-fired strip dryer, identified as 253, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.

(9) One (1) chem-treat roll coating system with one (1) natural gas-fired strip dryer, identified as 254, with a heat input capacity of 2.05 million Btu per hour, and exhausting inside the building.

(10) One (1) phosphate roll coating system with one (1) natural gas-fired infra-red furnace, identified as 255, with a heat input capacity of 9.36 million Btu per hour, and exhausting inside the building.

(11) Three (3) electrostatic oilers exhausting inside the building.

(12) Natural gas-fired space heaters, identified as 256, with a heat input capacity of 77.52 million Btu per hour, and exhausting through one (1) stack, identified as 256.

(13) One (1) natural gas-fired boiler, identified as 257, with a heat input capacity of 22.95 million Btu per hour, and exhausting through one (1) stack, identified as 257.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at Ispat Inland, Inc. during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

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

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

(2) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

(3) 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.

(b) 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.

(c) 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.

(d) The following VOC and HAP storage containers:

(1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.

(2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

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

(f) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(h) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(i) Cleaners and solvents characterized as follows:

(1) 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;

(2) 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.

(j) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(k) Closed loop heating and cooling systems.

(l) Rolling oil recovery systems.

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

(n) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the Permittee, that is, an on-site sewage treatment facility.

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

(p) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.

(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

(q) Quenching operations used with heat treating processes.

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

(s) Heat exchanger cleaning and repair.

(t) Process vessel degreasing and cleaning to prepare for internal repairs.

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

(v) Conveyors as follows:

(1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;

(2) Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;

(3) Uncovered coal conveying of less than or equal to 120 tons per day.

(4) Underground conveyors.

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

(x) 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.

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

(z) 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.

(aa) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(bb) Furnaces used for melting metals other than beryllium with a brim full capacity of less than

or equal to 450 cubic inches by volume.

(cc) On-site fire and emergency response training approved by the department.

(dd) 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.

(ee) Purge double block and bleed valves.

(ff) Filter or coalescer media change out.

(gg) Vents from ash transport systems not operated at positive pressure.

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

(ii) Any unit emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP

(1) Process Water Cooling Towers (chlorine addition)

Existing Approvals

Ispat Inland, Inc. has been operating under previous approvals including, but not limited to, the following:

(a) Operation Permit 45-12-80-0170, issued on February 28, 1977

(b) Operation Permit 45-12-80-0171, issued on February 28, 1977

(c) Operation Permit 45-12-80-0169, issued on February 28, 1977

(d) Operation Permit 45-12-80-0167, issued on February 28, 1977

(e) Operation Permit 45-12-80-0168, issued on February 28, 1977

(f) Operation Permit 45-12-80-0166, issued on February 28, 1977

(g) Operation Permit 45-12-80-0164, issued on February 28, 1977

(h) Operation Permit 45-12-80-0165, issued on February 28, 1977

(i) Operation Permit 45-12-80-0173, issued on February 28, 1977

(j) Operation Permit 45-12-80-0174, issued on February 28, 1977

(k) Operation Permit 45-12-80-0175, issued on February 28, 1977

(l) Operation Permit 45-12-80-0176, issued on February 28, 1977

(m) Operation Permit 45-12-80-0200, issued on February 28, 1977

(n) Operation Permit 45-12-80-0192, issued on February 28, 1977

(o) Operation Permit 45-12-80-0194, issued on February 28, 1977

(p) Operation Permit 45-12-80-0195, issued on February 28, 1977

(q) Operation Permit 45-12-80-0196, issued on February 28, 1977

(r) Operation Permit 45-12-80-0197, issued on February 28, 1977

(s) Operation Permit 45-12-80-0198, issued on February 28, 1977

(t) Operation Permit 45-12-80-0191, issued on February 28, 1977

(u) Operation Permit 45-12-80-0179, issued on February 28, 1977

(v) Operation Permit 45-12-80-0180, issued on February 28, 1977

(w) Operation Permit 45-12-80-0181, issued on February 28, 1977

(x) Operation Permit 45-12-80-0182, issued on February 28, 1977

(y) Operation Permit 45-12-80-0183, issued on February 28, 1977

(z) Operation Permit 45-12-80-0184, issued on February 28, 1977

(aa) Operation Permit 45-12-80-0185, issued on February 28, 1977

(bb) Operation Permit 45-12-80-0186, issued on February 28, 1977

(cc) Operation Permit 45-12-80-0187, issued on February 28, 1977

(dd) Operation Permit 45-12-80-0188, issued on February 28, 1977

(ee) Operation Permit 45-12-80-0189, issued on February 28, 1977

(ff) Operation Permit 45-12-80-0178, issued on February 28, 1977

(gg) Operation Permit 45-06-77-0235, issued on March 16, 1977

(hh) Operation Permit 45-12-80-0253, issued on October 4, 1977

(ii) Operation Permit 45-12-80-0243, issued on October 27, 1977

(jj) Operation Permit 45-12-80-0282, issued on August 29, 1978

(kk) Operation Permit 45-03-79-0281, issued on August 29, 1978

(ll) Operation Permit 45-12-80-0283, issued on September 20, 1978

(mm) Construction Permit PC(45)1717, issued on December 15, 1988

(nn) Operation Permit 45-05-93-0507, issued on June 27, 1989

(oo) Construction Permit PC(45)1795, issued on October 5, 1989

(pp) Construction Permit CP(45)1854, issued on July 11, 1990

(qq) Operations Permit 2360-0031-0610, issued on August 10, 1990

(rr) Operations Permit 2360-0015-0611, issued on August 14, 1990

(ss) Operations Permit 2360-0015-0612, issued on October 17, 1990

(tt) Construction Permit CP(45)1856, issued on October 17, 1990

(uu) Registration 0089-00015, issued on April 19, 1991

(vv) Construction Permit 089-2016, issued on August 22, 1991

(ww Registration 089-2392, issued on June 9, 1992

(xx) Registration 089-2905, issued on March 29, 1993

(yy) Construction Permit 089-2611, issued on May 4, 1993

(zz) Registration 089-2973, issued on June 10, 1993

(aaa) Registration 089-3217, issued on December 29, 1993

(bbb) Construction Permit 089-2545, issued on February 4, 1994

(ccc) Registration 089-3444, issued on March 18, 1994

(ddd) Registration 089-3555, issued on May 25, 1994

(eee) Construction Permit 089-3551, issued on October 18, 1994

(fff) Construction Permit 089-3192, issued on October 26, 1994

(ggg) Construction Permit 089-3630, issued on March 20,1995

(hhh) Construction Permit 089-4400, issued on August 23, 1995

(iii) Amendment 089-4559, issued on September 15, 1995

(jjj) Exemption 089-4865, issued on October 6, 1995

(kkk) Construction Permit 089-4940, issued on June 19, 1996

(lll) Amendment 089-6417, issued on October 10, 1996

(mmm) Construction Permit 089-6919, issued on December 30, 1996

(nnn) Exemption 089-7246, issued on February 10, 1997

(ooo) Review Request 089-8199, issued on March 17, 1997

(ppp) Exemption 089-8901, issued on December 23, 1997

(qqq) Amendment 089-9155, issued on January 7, 1998

(rrr) Construction Permit 089-9033, issued on February 26, 1998

(sss) Exemption 089-9176, issued on March 30, 1998

(ttt) Exemption 089-8672, issued on June 15, 1998

(uuu) Amendment 089-9803, issued on June 15, 1998

(vvv) Minor Source Modification 089-10601, issued on March 8, 1999

(www) Significant Source Modification 089-10472, issued on May 19, 1999

(xxx) Review Request 089-12487, issued on July 20, 2000

(yyy) Minor Source Modification 089-12491, issued on July 20, 2000

(zzz) Notice only change 089-12543, issued on August 7, 2000

(aaaa) Minor Source Modification 089-12601, issued on December 11, 2000

(bbbb) Minor Source Modification 089-12796, issued on June 12, 2001

(cccc) Minor Source Modification 089-13662, issued on March 26, 2001

(dddd) Significant Source Modification 089-14245, issued on November 30, 2001

(eeee) Significant Source Modification 089-16966-00316, issued on November 26, 2003

All conditions from previous approvals were incorporated into this Part 70 permit except the following:

(a) PC (45) 1717, issued on December 15, 1988

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-3192, issued on October 26, 1994.

(b) OP45-05-93-0507, issued on June 27, 1989

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-3192, issued on October 26, 1994.

(c) PC (45) 1795, issued on October 5, 1989

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-2611, issued on May 4, 1993.

(d) OP2360-0031-0610, issued on August 10, 1990

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-2611, issued on May 4, 1993.

(e) OP2360-0031-0611, issued on August 14, 1990

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-3192, issued on October 26,

1994.

(f) Registration 0089-00015, issued on April 19, 1991

Condition: Entire Permit

Reason not incorporated: Coke Battery 11 taken out of operation in 1992.

(g) CP (45) 1856

Condition: #4- That the new regenerative horizontal ladle preheaters shall be limited to the following: (a) the five ladle preheaters shall be fired by natural gas and limited to firing 84.9 million cubic feet per year, (b) combined nitrogen oxide emissions shall be limited to 37.50 pounds per hour, and 42.65 tons per year, (c) carbon monoxide emissions shall be limited to 0.75 pounds per hour and 0.85 tons per year.

Reason not incorporated: Condition replaced with new limitations by Amendment 089-9155 issued January 7, 1998.

(h) Registration 089-2392, issued on June 9, 1992

Condition: Entire Permit

Reason not incorporated: Coke by-product vessels and sumps are no longer a part of the operation.

(i) CP 089-2611, issued on May 4, 1993

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-3630, issued on March 20, 1995.

(j) CP 089-2545, issued on February 4, 1994

Condition: #4-Particulate Matter (PM) emissions shall be limited to 2.74 lbs/hr (12 tpy) to satisfy 326 IAC 6-3. PM emissions will be considered in compliance with 326 IAC 6-3 provided that visible emissions are limited to 10% opacity.

Reason not incorporated: 326 IAC 6-3 does not apply to facilities located in Lake County. However, the 10% opacity limitation will be retained in the Part 70 permit and a new PM emissions limit is as follows: Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the Billet Inspection Line Shotblaster shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(k) CP 089-3192, issued on October 26, 1994

Condition: Entire Permit

Reason not incorporated: Permit superceded by CP 089-4400, issued on August 23, 1995.

(l) Amendment 089-4559, issued on September 15, 1995

Condition: #4- This condition amended particulate matter emission limitations from each of the PCI systems originally found in CP 089-2016, issued on August 22, 1991.

Reason not incorporated: Between the time of issuance of the original permit and the amendment, the particulate emissions limitations were incorporated into the SIP. The original limitations listed under 326 IAC 6-1-10.1(d)(19) could not be amended through the permit process without the SIP being amended. The original limitations found in CP 089-2016, issued on August 22, 1991 have been incorporated into the Part 70 permit. The change in facility description in the amendment will be applied to the Part 70 permit.

(m) CP 089-6919, issued on December 30, 1996

Condition: Entire Permit

Reason not incorporated: Original Permit was divided into three (3) separate permits and superceded by 089-9033 (Ispat Inland), 089-9236 (Indiana Harbor Coal and Coke) and 089-9237 (Cokenergy).

(n) CP 089-9033, issued on February 26, 1998

Conditions: #13, #14, #15, #17, #20, #21(a), #22(d) that pertain to the permitting of the two (2) natural gas turbines (ES501 and ES502).

Reason not incorporated: The two (2) natural gas turbines (ES501 and ES502) were never installed and more than eighteen (18) months have elapsed since issuance of the construction permit 089-9033.

(o) CP 089-8672, issued on June 15, 1998

Conditions: #10(a)-Pursuant to 326 IAC 6-1-2 (Non attainment Area Particulate limitations) PM potential to emit from fuel combustion shall not exceed a total of 0.03 grains per dry standard cubic foot.

Reason not incorporated: The No. 5 and 6 Annealing Furnaces are specific units listed in the State Implementation Plan (SIP) (326 IAC 6-1-10.1(h)) and shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.987 lbs/hour.

(p) Minor Source Modification 089-10601-00316 issued March 8, 1999

Condition D.1.1: Pursuant to and 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate matter (PM) emissions from the 41.5 MMBtu per hour heat input boiler (207) shall not exceed 0.12 pounds per million Btu of heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where Pt = Pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)

Q = Total source maximum operating capacity rating in MMBtu per hour of heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

Reason not incorporated: If an NSPS or 326 IAC 6-1 applies, the limitations established by 326 IAC 6-2 <u>do not</u> apply and the 326 IAC 6-2 condition should not be included in the permit. Pursuant to 326 IAC 6-1-2(b), particulate matter (PM) emissions from the 41.5

MMBtu per hour heat input boiler (207) shall not exceed .01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.

(q) Significant Source Modification 089-10472-00316, issued on May 19, 1999

Condition: Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate matter (PM) emissions from the boiler (257) shall not exceed 0.116 pound per million Btu (lb/MMBtu) heat input. This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$ where Q = Total source heat input capacity (MMBtu/hr); and Pt = Allowable emission rate (lb/MMBtu)

Reason not incorporated: If an NSPS or 326 IAC 6-1 applies, the limitations established by 326 IAC 6-2 do not apply and the 326 IAC 6-2 condition should not be included in the permit. Pursuant to 326 IAC 6-1-2(b), particulate matter (PM) emissions from the boiler (257) shall not exceed .01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.

(r) Minor Source Modification 089-12796-00316, issued June 12, 2001

Condition: (a) The particulate matter (PM) emission rate shall be less than 25 tons per year. Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 will not apply.
(b) The particulate matter less than 10 microns (PM_{10}) emission rate shall be less than 15 tons per year. Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 will not apply.

Reason not incorporated: This is not an enforceable condition and therefore is not being included in the Part 70 permit. The potential to emit for PM and PM10 was below PSD significant levels in the original construction permit. Particulate matter shall be limited by 326 IAC 6-1-2.

(s) Significant Source Modification 089-14245-00316, issued November 30, 2001

(1) Pursuant to 326 IAC 326 IAC 2-2, 326 IAC 2-3, and Significant Source Modification 089-14245-00316, issued November 30, 2001, the No. 4 AC Station (listed in Section D.15-Utilities) shall be curtailed within 180 days after start-up of the last coke battery (which occurred in 1998), such that emissions from boilers 401 through 405 do not exceed the limitation specified in the following table in tons per year.

PM	PM_{10}	SO_2	VOC	CO	NO_x	H_2SO_4	Lead
605.8	605.8	3899.2	20.2	202.5	3284	132.6	0.36

(2) The Permittee shall adhere to following requirements for curtailment of operation of No. 4AC station (listed in Section D.15-Utilities):

(A) The lime spray dryer and baghouse associated with the waste gas stack (201) shall begin operation within 30 days after start-up of the first coke battery. (Cokenergy, Inc., Permit 089-11135-00383)

(B) After emissions curtailment of No. 4 AC Station per this condition above, records of fuel type and usage for boilers 401 through 405 in the No. 4AC Station, records of emissions calculations necessary to document compliance with limits in this condition, and dates emissions curtailment. These records shall be kept for at least a 36 month period and shall be

submitted to IDEM, OAQ upon request. Sulfur dioxide actual emissions shall be calculated using CEM output records for boilers 401 through 405 when fired on coal or fuel oil, otherwise AP-42 emission factors for natural gas combustion shall be used. Actual PM_{10} emissions from:

(i) coal or mixed gas combustion shall be calculated using PM_{10} SIP limits or site specific stack test results as the emission factor, and

(ii) natural gas combustion shall be calculated using AP-42 PM_{10} emission factor for natural gas combustion.

Actual emissions for all other pollutants shall be calculated using corresponding AP-42 emission factor or site-specific emission factor as determined by a stack test carried out on a representative boiler with the prior approval from OAQ, IDEM. The operation of No. 4 AC station will be subject to any other requirements as specified in State Implementation Plan.

Reason not incorporated: These conditions have been completed and do not need to be included in the Part 70 permit, because pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, the No. 4 AC Station is required to be shutdown permanently . The natural gas-fired turbines were never constructed and Ispat Inland, Inc. shall be required to resubmit an application in order to now construct them because the time period has lapsed and proper netting credits may no longer be available.

Enforcement Issue

The U.S.EPA has issued a notice of violation to Indiana Harbor Coke Company, alleging that the construction and operation of Heat Recovery Coal Carbonization unit has violated the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-3 (Emission Offset), and CP 089- 6919-00316 issued on December 30, 1996, CP089-9033-00316, CP089-9237-00383, CP089-9236-00382) issued on February 26, 1998 and the significant modifications 089-14245-00316, 089-14243-00383 and 089-14241-00382 issued on November 30, 2001 for emissions of sulfur dioxide (SO2). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to this emission unit with regards to 326 IAC 2-2 (Prevention of Significant Deterioration) or 326 IAC 2-3 (Emission Offset). The OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with applicable requirements and a schedule for achieving compliance with such requirements following the resolution of enforcement action.

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 6, 1996.

A notice of completeness letter was mailed to the source on July 2, 1997.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source 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, including 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."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

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
Total HAPs	greater than 25

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM10, SO_2, CO and NO_x are equal to or greater than 100 tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) 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.

(b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(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.

Actual Emissions

The following table shows the actual emissions from Ispat Inland, Inc. This information reflects the 2001 OAQ emission data.

Pollutant	Emissions (tons/year)
PM	2,016
PM-10	2,016
SO_2	3,734
VOC	1,759
CO	118,123
NOx	6,465

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	Attainment
SO_2	Marginal Nonattainment

NO_2	Attainment
Ozone	Severe Nonattainment
CO Lead	Attainment Attainment or unclassifiable

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) Lake County has been classified as nonattainment for SO2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(c) Lake County has been classified as attainment or unclassifiable for all other pollutants. 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 assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

(a) No. 2 BOF is not subject to the New Source Performance Standard, 326 IAC12 (40 CFR Part 60, Subpart N), Standards of Performance for Primary Emissions From Basic Oxygen Furnaces for Which Construction Is Commenced After June 11, 1973, because construction was commenced prior to June 11, 1973.

(b) No. 4 BOF is not subject to the New Source Performance Standard, 326 IAC12 (40 CFR Part 60, Subpart N), Standards of Performance for Primary Emissions From Basic Oxygen Furnaces for Which Construction Is Commenced After June 11, 1973 because construction was commenced prior to June 11, 1973.

(c) The No.2 and No.4 BOF shops are not subject to the requirements of New Source Performance Standard, 326 IAC 12, (40 CFR 60 Subpart Na), Standard of Performance for Secondary Emissions from Basic Oxygen Process Steel-making facilities for which the construction is commenced after January 20, 1983. The No.2 and No.4 BOF shops have not been modified nor reconstructed as described in 40 CFR '60.14 or '60.15 after January 20, 1983.

(d) The Electric Arc Furnace (EAF) is not subject to the New Source Performance Standard, 326 IAC 12 (40 CFR Part 60, Subpart AAa), Standards of Performance for Steel Plants:

Electric Arc Furnace and Argon-Oxygen Decarburization Vessels constructed after August 7, 1983, because construction was commenced prior to August 7, 1983. Construction of the EAFcommenced in 1968.

(e) The lime plant is not subject to the New Source Performance Standard, 326 IAC12 (40 CFR Part 60, Subpart HH), Standards of Performance for Lime Manufacturing Plants, because the effective date of the rule is May 3, 1977 and the lime plant was built in 1973.

(f) The natural gas fired boiler (207) at the No. 1 EAF is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc) because it was constructed after June 9, 1989 and has a heat input capacity greater than 10 million Btu per hour and less than 100 million Btu per hour. Pursuant to this rule, records shall be kept of the amount of fuel combusted each day. All records shall be maintained for a period of two years following the date of such record. There are no other requirements pursuant to this rule because the boiler combusts only natural gas.

(g) The storage vessels are not subject to the New Source Performance Standard, 326 IAC12 (40 CFR 60.110, Subpart K), Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 because they are not used to store petroleum liquid as defined in 40 CFR 60.111, Subpart K.

(h) The storage vessels are not subject to the New Source Performance Standard, 326 IAC12 (40 CFR 60.110a, Subpart Ka), Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 because the tanks were built prior to May 18,1978 and do not store petroleum liquid as defined in 40 CFR 60.111a, Subpart Ka.

(i) The storage vessels (T-1 through T-9 and T-11 through T-19) are not subject to the New Source Performance Standard, 326 IAC12 (40 CFR 60.110b, Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) because the tanks were built prior to July 23, 1984.

(j) The 1,000,000 gallon storage tank (T-10) is subject to 40 CFR Part 60, Subpart Kb because the maximum capacity of the tank is greater than 40 m3 and is used to store volatile organic liquids for which construction, reconstruction, or modification commenced after July 23, 1984. Pursuant to this rule, the Permittee must maintain records as required by 40 CFR 60.116b(a) and 60.116b(b).

(k) The No. 4 Pickling Line and No. 5 Pickling Line are subject to National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants (40 CFR Part 63, Subpart CCC) and shall comply with the following requirements:

(1) The Permittee shall not cause or allow to be discharged into the atmosphere from the affected pickling line:

(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.

(2) The Permittee shall comply with the operation and maintenance requirements of 40 CFR Part 63.6(e) (Subpart A, General Provisions) at the No. 4 Pickling Line and No. 5 Pickling Line. 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;

(i) Cleaning or replacement of any plugged spray nozzles or other liquid delivery devices;

(ii) Repair or replacement of missing, misaligned, or damaged baffles, trays, or other internal components;

(iii) Repair or replacement of droplet eliminator elements as needed;

(iv) Repair or replacement of heat exchanger elements used to control the temperature of fluids entering or leaving the scrubber; and

(v) Adjustment of damper settings for consistency with the required air flow.

(E) If the scrubber is not equipped with a viewport 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.

(l) The four (4) regenerated HCl storage vessels are subject to National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCI Process Facilities and Hydrochloric Acid Regeneration Plants (40 CFR Part 63, Subpart CCC) and shall comply with the following requirements:

(1) Hydrochloric acid storage vessels. 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.

(m) The Permittee is subject to 40 CFR 63, Subpart FFFFF - National Emissions Standards for Hazardous Air pollutants from Integrated Iron and Steel Manufacturing. The Permittee owns and operates an integrated iron and steel manufacturing facility is a major source of HAPs (i.e., the source has the potential to emit 10 tons per year or greater of a single HAP or 25 tons per year or greater of a combination of HAPs). 40 CFR 63, Subpart FFFFF covers emissions from the sinter plant windbox exhaust, discharge end, sinter cooler, the blast furnace casthouse, the BOF shop including individual BOF and shop ancilllary operations (hot metal transfer, hot metal desulfurization, slag skimming and ladle metallurgy). The Permittee shall comply with these requirements on and after May 20, 2006.

(n) The lime manufacturing plant, is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing plants, (40 CFR 63, Subpart AAAAA), effective the date the rule is published in the Federal Register. Pursuant to 40 CFR 63, Subpart AAAAA, the Permittee shall comply with the applicable emission limitations for the existing affected lime manufacturing plant, and shall complete all applicable performance tests no later than three years from the date of publication of the final rule in the Federal Register. The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart AAAAA: The No.1 and No. 2 Kiln (45), (49), and their associated cooler(s), and processed stone handling (PSH) operation system(s).

(o) The requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) are applicable to this source because the source is a major source of HAPs (i.e., the source has the potential to emit 10 tons per year or greater of a single HAP or 25 tons per year or greater of a combination of HAPs) and the source includes one or more units that belong to one or more source categories affected by the Section 112(j) Maximum Achievable Control Technology (MACT) Hammer date of May 15, 2002.

(1) This rule requires the source to:

(A) Submit a Part 1 MACT Application by May 15, 2002; and

(B) Submit a Part 2 MACT Application for each affected source category in accordance with the appropriate Part 2 MACT Application deadline listed in Table 1 to 40 CFR 63, Subpart B for the affected source category.

(2) The Permittee submitted a Part 1 MACT Application on May 14, 2002.

(3) Pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The MACT and the General Provisions of 40 CFR 63, Subpart A will become new applicable requirements, as defined by 326 IAC 2-7-1(6), that must be incorporated into the Part 70 permit. After IDEM, OAQ receives the initial notification, any of the following will occur:

(A) If three or more years remain on the Part 70 permit term at the time the MACT is promulgated, IDEM, OAQ will notify the source that IDEM, OAQ

will reopen the permit to include the MACT requirements pursuant to 326 IAC 2-7-9; or

(B) If less than three years remain on the Part 70 permit term at the time the MACT is promulgated, the Permittee must include information regarding the MACT in the renewal application, including the information required in 326 IAC 2-7-4(c); or

(C) The Permittee may submit an application for a significant permit modification under 326 IAC 2-7-12 to incorporate the MACT requirements. The application may include information regarding which portions of the MACT are applicable to the emission units at the source and which compliance options will be followed.

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 fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM_{10}, CO and SO_2 and more than ten (10) tons per year of VOC and NOx in Lake County. 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)

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%) 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 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

(a) Pursuant to 326 IAC 6-1-11.1 (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 the initial hopper of a material processing facility as defined in 326 IAC 6-1-11.1(c) 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 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 hopper of a 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 transfering from pots and trucks shall not exceed twenty percent (20%) on a six (6) minute average.

(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 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 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) PM_{10} 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 compliance with these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on December 12, 1996.

326 IAC 6-1-11.2 (Lake County Particulate Matter Contingency Measures)
The source is subject to 326 IAC 6-1-11.2 because it is subject to the requirements of 326 IAC 6-1-11.1 and 326 IAC 6-1-10.1(d). Pursuant to this rule, the source shall comply with parts (h), (i), (k), (l), (m), (o), (p) and (q) of this rule.

326 IAC 6-3 (Particulate Emissions Limitations for Process Operations)
The source is not subject to the requirements of 326 IAC 6-3 because the plant is subject to the requirements of 326 IAC 6-1 (Nonattainment Particulate Emission Limitations). Pursuant to the applicability requirements (326 IAC 6-3-1(b)), if any limitation established by this rule is inconsistent with applicable limitations contained in 326 IAC 6-1 (Nonattainment Particulate Emission Limitations) or 326 IAC 12 (New Source Performance Standards), then the limitations contained in 326 IAC 6-1 or 326 IAC 12 prevail.

326 IAC 6-4 (Fugitive Dust Emissions)
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).

State Rule Applicability - Individual Facilities

326 IAC 2-1.1-9(5) (Revocation of Permits)

(a) A Minor Source Modification 089-10601-00316 issued March 8, 1999, to construct the vacuum degasser and a boiler (207). This equipment has not been constructed. Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the commissioner may revoke this approval if construction is not commenced within 18 months after receipt of approval. Permittee shall seek prior approval before constructing this equipment.

(b) A Significant Source Modification 089-10472-00316 issued on May 19, 1999 to construct a continuous coating line (CCL No. 6). This equipment has not been constructed. Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the commissioner may revoke this approval if construction is not commenced within 18 months after receipt of approval. Permittee shall seek prior approval before constructing this equipment.

326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset)
The following limit(s) and conditions will maintain emissions below 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) level requirements:

(a) Blast Furnace No. 7

(1) Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, PM emissions from the coal and coke handling equipment shall be limited as follows:

(A) the coke transfer tower (Stack ID 268) shall not exceed 0.0075 pounds per

hour, and

(B) the coke transfer point (Stack ID 269) shall not exceed 0.092 pounds per hour.

(2) Pursuant to construction permit 089-9033-00316, issued on February 26, 1998, visible emissions from the coke transfer towers controlled by baghouses (Stack IDS 268 and 269) shall not exceed an opacity of five percent (5%), six minute average.

(3) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the carbon monoxide emissions from the various stacks associated with the No.7 Blast Furnace shall not exceed the following limitations:

Stack ID, associated equipment	Type of fuel combusted at the equipment	CO emissions limitations (pound/MMSCF of fuel)
170, No.7 Blast Furnace Stoves	Blast furnace gas	13.7
	Natural gas	84
	Combination gas (a mix of natural gas and blast furnace gas)	13.7 X Usage of BFG (MMSCF)+ 84 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)
134, No.5 Boiler House	Blast Furnace Gas	13.7
	Natural Gas	84
	Combination gas (a mix of natural gas and blast furnace gas)	13.7 X Usage of BFG (MMSCF)+ 84 X Usage of NG (MMSCF) / Total usage of BFG and NG (MMSCF)

Stack ID, associated equipment	CO emissions limitations	Units
167, Cast house No.7 Blast Furnace east baghouse	0.56	pound/ton of hot metal produced
166, Cast house No.7 Blast Furnace west baghouse	0.56	pound/ton of hot metal produced

(4) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, if the stack tests required under condition D.2.17 show that the CO emission limitations in condition D.2.8 (a) are not achievable in practice, the Permittee can request the Department to re-evaluate the CO emissions limitations in D.2.8 (a). The department may, at its discretion, use the authority under IC 13-15-7-2 to re-open and revise the limit to more closely reflect the actual stack test results. The Department will provide an opportunity for public notice and comment prior to finalizing any permit decision. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to this permit modification.

(5) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003 and 326 IAC 2-2-3 (Control Technology Review: Requirements) the production of hot molten metal from the No.7 Blast Furnace shall not exceed four million four hundred and seventeen thousand (4,417,000) tons per 365 consecutive days, with compliance demonstrated at the end of each day (a consecutive 24 hour period).

(6) In order to make requirements of 326 IAC 2-2 (PSD) not applicable, on and after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, the operation of the slag pits at No.7 Blast Furnace shall be curtailed to 227,472 tons of slag processed at these facilities per 12 consecutive month period.

(b) No. 2 BOF

(1) Operation restriction – shutdown of 2 A Blooming Mill and 21 inch Bar Mill [326 IAC 2-3][326 IAC 2-2]

(A) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, 326 IAC 2-3 and 326 IAC 2-2, the 2A Blooming Mill and 21 inch Bar Mill shall be shutdown permanently before the restart of the No.7 Blast Furnace operation after the completion of the reline project in 2003. In addition within 180 days of restart of the No.7 Blast Furnace operation after the reline project in 2003, these emissions units shall be physically disconnected and permanently removed from service.

(B) On and after the date of issuance of this permit, the Permittee shall request the IDEM, OAQ to remove the 2A Blooming Mill and 21 inch Bar Mill and all the associated equipment permanently from the emissions inventory maintained by the State.

(C) This condition supercedes all conditions in previous permits that allow the operation of the 2A Blooming Mill and 21 inch Bar Mill and its associated equipment.

(c) EAF

(1) Pursuant to Construction Permit (45) 1856 issued October 17, 1990, visible emissions from any stack, other process exhaust, building roof monitor, or building opening due to the operation of the five (5) preheaters shall not exceed five (5) percent opacity, as determined by 40 CFR 60, appendix A, Method 9 and 326 IAC 5-1.

(2) Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the sulfur dioxide (SO_2) emissions from the No. 1 electric arc furnace (EAF) and ladle metallurgy facility (LMF) shall be limited as follows:

(A) SO_2 emissions from the EAF shall be less than 336.7 tons per 12 consecutive months with compliance determined at the end of each month, based on the total tons of each series steel produced times the pounds of SO_2 per ton of steel (pounds of SO_2 divided by tons of steel).

(B) The EAF pounds of SO_2 divided by tons of steel for calculation purposes shall be: 0.083 pounds of SO_2 per ton of steel for non-sulfur bearing heats, 0.531 pounds of SO_2 per ton of steel for 1100 series steel, and 1.752 pounds of SO_2 per ton of steel for 1200 series steel, and

(C) The amount of molten steel to be processed in the LMF (SS-2) shall be less than 975,900 tons per 12 consecutive months with compliance determined at the end of each month and SO_2 shall not exceed 0.107 pounds per ton.

(D) Pursuant to CP 089-3630-00316 issued March 20, 1995, combustion sulfur dioxide emissions shall be limited by using natural gas-fired burners.

(3) Pursuant to Amendment 089-9155, issued January 7, 1998, the regenerative ladle preheaters shall be limited to the following:

(A) the five ladle preheaters shall be fired by natural gas and limited to firing 130.9 million cubic feet per 12 consecutive months with compliance determined at the end of each month,

(B) combined nitrogen oxide emissions shall be limited to 37.50 pounds per hour, and 42.65 tons per year,

(C) carbon monoxide emissions shall be limited to 1.15 pounds per hour and 1.31 tons per year.

(4) Pursuant to Minor Source Modification 089-10601-00316 issued March 8, 1999, any change or modification which will increase the NOx emissions to greater than 18.2 tons per year, requires prior approval pursuant to 326 IAC 2-3 (Emission Offset)

(5) Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the required amount of oxygen shall be supplied to the EAF to ensure that the carbon monoxide emissions shall not exceed 4.67 pounds per ton.

(6) Pursuant to Minor Source Modification 089-10601-00316 issued March 8, 1999, the CO emissions from the vacuum degasser shall not exceed 0.17 pound per ton of steel throughput to the degasser.

(7) Pursuant to Construction Permit (45) 1856 issued October 17, 1990, that prior to the start of operation of the five regenerative horizontal ladle preheaters, the existing three cold combustion type horizontal ladle preheaters at the No. 1Electric Furnace shop will be removed from operation.

(8) Pursuant to Construction Permit 089-3630-00316 issued March 20, 1995, the No. 80 furnace at the No. 1 Electric Arc Furnace Shop and the No. 2AC boiler 207-10 shall be permanently shutdown as required in CP No. 089-3630, issued on March 20, 1995. Also, as required in CP No. 089-3630, the emissions from the No. 1 Electric Arc Furnace Shop shall be limited as follows in tons per year:

TSP	PM_{10}	SO_2	Lead	VOC	NO_x	CO
133.2	108.0	336.7	1.23	11.3	159.6	2303.5

(9) Pursuant to CP 089-3630-00316 issued March 20, 1995, the 70.6 tons per year of sulfur dioxide shall be offset by a 77 tons per year credit from the permanent shutdown of the 2AC boiler No. 207-10.

(d) 80" Hot Strip Mill

(1) Pursuant to CP 089-4400 issued on August 23, 1995, the Walking Beam Furnaces shall be limited as follows:

(A) NOx emissions shall not exceed 357 pounds per million cubic feet of natural gas.

(B) Carbon monoxide emissions shall not exceed 13 pounds per million cubic feet of natural gas.

(C) the total heat input to the three walking furnaces (operating only two walking furnaces at one time) shall not exceed an hourly rate of 1371.2 MMBtu/hr

(2) Pursuant to CP 089-4400 issued on August 23, 1995, the amount of natural gas-

fired shall be limited to twelve billion ($12X10^9$) cubic feet per 12 consecutive months with compliance determined at the end of each month.

(3) Pursuant to CP 089-4400 issued on August 23, 1995, SO2 emissions from the 80" Hot Strip Mill, Walking Beam Furnaces shall be minimized by using natural gas only as fuel.

(4) Pursuant to 326 IAC 2-2, 326 IAC 2-3, and CP 089-4400 issued on August 23, 1995, the permanent shutdown of the following facilities shall continue in effect:

(A) “C” Coke Battery underfire

(B) “C” Coke Battery preheater

(C) “C” Coke Battery process fugitives

(D) “C” Coke Battery NH4 destruct

(E) No. 3 Blast Furnace Stoves

(F) 80" Hot Strip Mill Pusher Furnaces

(G) No. 3 Bloom Mill reheat

(H) 14" Bar Mill reheat furnaces

(I) 24" Bar Mill reheat furnaces

(J) No. 3 Open Hearth

(K) 10" Bar Mill Reheat Furnace

(L) 44" Hot Strip Mill reheat

(5) The reactivated two (2) natural gas fired Pusher Furnaces in CP 089-3192 issued on October 26, 1994 and the previously restricted backup Furnaces in PC (45) 1717 on December 15, 1988 at the 80" Hot Strip Mill shall be permanently removed from service.

(e) 12" Bar Mill

Pursuant to CP 089-2545, issued on February 4, 1994, opacity from the Billet Inspection Line Shotblaster shall not exceed 10% opacity.

(f) Coated Products

(1) Pursuant to CP 45-1854, issued on July 11, 1990, the No. 4 Aluminizing Line Radiant Tube Replacement Furnace shall be fired by natural gas and rated at 19.136 MMBtu/hr heat input.

(2) Pursuant to CP 45-1854, issued on July 11, 1990, opacity from any stack, other process exhaust, building roof monitor, or building opening due to operation of the No. 4 Aluminizing line radiant tube furnace shall not exceed 5% opacity, per 40 CFR, Part 60, Appendix A, Method 9 and 326 IAC 5-1.

(3) Pursuant to CP 089-4940, issued on June 19, 1996, only natural gas shall be fired in the No. 5 Galvanizing Line recuperative radiant tube burners and NOx emissions

shall not exceed three hundred-fifty (350) pounds per million cubic feet of natural gas burned and existing burners shall be removed. The total maximum heat input shall not exceed 74.9 MMBtu/hr.

(4) Pursuant to CP 45-1854, issued on July 11, 1990, No. 4 Aluminizing Line radiant tube furnace NOx emissions shall be limited to 0.375 lb/MMBtu, 7.2 lb/hr and 31.43 tpy.

(5) Pursuant to CP 089-3551, issued on October 28, 1994, the NOx from the No. 1 Normalizer radiant tube annealing furnace shall not exceed 0.43 lbs/MMBtu heat input.

(6) Pursuant to CP 089-8672, issued on June 15, 1998, NOx potential to emit from No. 5 and No.6 Batch Anneal facilities shall not exceed a total of 0.2 lbs/MMBtu. This is equivalent to 20.19 tons per year.

(7) Pursuant to CP 45-1854, issued on July 11, 1990, No. 4 Aluminizing Line radiant tube furnace CO emissions limited to 0.02 lb/MMBtu, 0.4 lb/hr and 1.7 tpy.

(8) Pursuant to CP 089-3551, issued on October 28, 1994, a total reduction of NOx, 140.7 tons per year (54.1 X 2.6) shall be achieved by the use of credited reduction from the permanent shutdown of the No. 2 AC Station Boilers 207-210 to achieve an internal offset of a 1.3 tons of NOx decrease for each 1.0 ton of NOx increase in lieu of the implementation of lowest achievable emission rate (LAER) to comply with 326 IAC 2-3-2(b)(3) and an additional minimum offset at the No. 2 AC Station Boilers 207-210 of 1.3 tons of NOx decrease for each 1.0 ton of NOx increase to comply with 326 IAC 2-3-3(a)(5).

(9) Pursuant to CP 089-3551, issued on October 28, 1994, the Permittee shall:

(A) maintain a permanent shutdown of its Nos.6, 7, 8, 9, 10 and 11 Coke Oven Batteries

(B) maintain a permanent shutdown of its No. 2 Bloomer and shall not restart the No. 2 Bloomer without obtaining approved construction permits from IDEM OAQ

(C) not restart Nos. 1 and 2 Blast Furnaces

(D) not restart No. 3 Open Coil Anneal

(E) maintain a permanent shut down of six (6) pits at its No. 4 Slabber and not restart any of the pits without first obtaining approved construction permits from IDEM OAQ

(10) Pursuant to CP 089-4940, issued on June 19, 1996, the 234.5 ton per year NOx reduction at No. 5 Galvanizing Line radiant tube furnaces required by 326 IAC 2-3-3(a) (2) shall be achieved by the shutdown of the following: 7.2 ton per year from open coil annealing furnace, 87.2 ton per year from No. 2 Bloomer, 67.7 ton per year from No. 1 Galvanizing line, 50.6 t ton per year from No. 4 Slab Pits 1-18 and 22 ton per year from No. 8 Coke Battery.

(11) Pursuant to CP 089-8672, issued on June 15, 1998 and 326 IAC 2-3-3(a)(5)(B), the NOx emissions from the No. 5 and No. 6 Batch Anneal Facilities are offset at a ratio of 1.3 to 1.0. This requires a reduction of 10.83 tons per year of NOx which will be deducted from the NOx emissions decrease credit from the retirement of the No. 3 AC Station.

(10) Pursuant to CP 089-8672, issued on June 15, 1998 and 326 IAC 2-3, the anneal bases (No.s 903-908) and three (3) new attendant furnaces (each furnace rated at 5.94 MMBtu/ hr) at No. 6 Annealing Furnace shall not begin operation until the old facilities (bases No. 6-9, 16-19 and 26-29) and their attendant eight (8) old furnaces (each furnace rated at 4.8 MMBtu/hr) are removed from service.

(g) Utilities

(1) Pursuant to CP 089-3551 issued on October 18, 1994, the Permittee shall limit the use of Blast Furnace Gas and natural gas up to a maximum of 1419 MMBtu/hr in all boilers inclusive or in any boiler combination in lieu of oil as fuel at No. 2 AC Station.

(2) Operation restriction – shutdown of No.4 AC station [326 IAC 2-2][326 IAC 2-3]

(A) Pursuant to 326 IAC 2-2 and 326 IAC 2-3, within 30 days after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, five (5) coal fired boilers identified as 401, 402, 403, 404 and 405 that form the part of 4 AC station and all the associated equipment for the operation of these boilers shall be shutdown permanently. In addition within 180 days of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003 or before the restart of the No.7 Blast Furnace operation after the reline project in 2003, these boilers shall be physically disconnected and permanently removed from service.

(B) On and after the date of issuance of Significant Source Modification 089-16966-00316, issued on November 26, 2003, the Permittee shall request the IDEM, OAQ to remove the 4 AC station and all the associated equipment permanently from the emissions inventory maintained by the State.

(C) This condition supercedes all conditions in previous permits that allow the operation of the 4 AC station and its associated equipment.

(h) Shops

The pugh car lancing operation and the dekishing and debricking operations shall be conducted inside the mold foundry building as required in CP No. 089-2905 issued on March 29, 1993. The emissions from pigging and lancing operations shall be captured and exhausted to the mold foundry baghouse with particulate emissions not to exceed 26.0 pounds per hour and 0.011 grains per dry standard cubic foot of exhaust air. The iron beaching operation, which accompanied these operations has been replaced by pigging. However, in an emergency iron beaching is used.

(i) CCL No. 6

(1) Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999:

(A) The natural gas-fired space heaters (256) shall use less than 300 million cubic feet (MMCF) per twelve (12) consecutive month period. This usage limit is required to limit the potential to emit NO_X from the space heaters to 15 tons per year. Therefore, the Permittee will have enough NO_X offset credits to meet the requirements of 326 IAC 2-3 (Emission Offset) for this project.

(B) Pursuant to 326 IAC 2-3 (Emission Offset), the 76" Hot Strip Mill, 100" Plate Mill and No. 4 Slabber Pits #19 through 45 shall be permanently shut down prior to operation of the No. 6 Continuous Coating Line. Therefore, the Permittee shall meet the requirements to offset their VOC and NO_X increases from this project. These shutdowns will provide 502.3 tons per year of NO_x and 7.3 tons per year of VOC.

(C) The volatile organic compound (VOC) emissions from the radiant tube furnace heating and soaking sections (251A and 251B) shall not exceed 1.4 pounds per million cubic feet (lb/MMCF). Therefore, the Permittee shall meet the offset requirements of 326 IAC 2-3 (Emission Offset).

(2) Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, the heat input capacities stated in the application and in the description of equipment shall be limited as follows:

(A) The natural gas-fired strip dryer, identified as 250, shall not exceed a heat input capacity of 2.04 million Btu per hour.

(B) The natural gas-fired radiant tube furnace heating section, identified as 251A, shall not exceed a heat input capacity of 102.05 million Btu per hour.

(C) The natural gas-fired radiant tube furnace soaking section, identified as ID 251B, shall not exceed a heat input capacity of 5.4 million Btu per hour.

(D) The natural gas-fired galvanneal soaking furnace, identified as 252, shall not exceed a heat input capacity of 6.5 million Btu per hour.

(E) The natural gas-fired strip dryer, identified as 253, shall not exceed a heat input capacity of 2.04 million Btu per hour.

(F) The natural gas-fired strip dryer, identified as 254, shall not exceed a heat input capacity of 2.05 million Btu per hour.

(G) The natural gas-fired infra-red furnace, identified as 255, shall not exceed a heat input capacity of 9.36 million Btu per hour.

(H) The natural gas-fired space heaters, identified as 256, shall not exceed a heat input capacity of 77.52 million Btu per hour.

(I) The natural gas-fired boiler, identified as 257, shall not exceed a heat input capacity of 22.95 million Btu per hour.

326 IAC 6-1-2 (Nonattainment Area Particulate Limitations)

The facilities listed in this permit are subject to 6-1-2 because the source is located in a nonattainment area for particulate matter, and has the potential to emit 100 tons or more of particulate matter per year. The facilities shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot.

(a) No. 5 Blast Furnace Casthouse Roof Monitor and No. 6 Blast Furnace Casthouse Roof Monitor shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot.

(b) Pursuant 326 IAC 6-1-2, the No. 7 Blast Furnace Casthouse Roof Monitor (171) and No. 7 Blast Furnace flare (195) shall not discharge to the atmosphere any gases which contain

particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

(c) Pursuant to CP089-9176-00316, the upper screening station baghouse (11) shall not exceed 0.022 grains per dry standard cubic foot of exhaust air.

(d) Pursuant 326 IAC 6-1-2, the Coal unloading system exhausting to stack (192) shall not discharge to the atmosphere any gases which contain particulate matter in excess of 0.03 grains per dry standard cubic foot of exhaust air.

(e) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the No.2 BOF Furnace Roof Monitor (153), Continuous casting operations (160, 161, 162), No. 2 BOF Continuous Caster Roof Monitor (158), ladle reheating (157) and No. 2 BOF Shop Roof Monitor (155) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(f) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the No.4 BOF Furnace Roof Monitor (29), RHOB vacuum degassers (32), ladle reheating (36), continuous caster (24 and 25) and Furnace Additive Hopper baghouse (35) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(g) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the electric arc furnace (141), regenerative horizontal ladle preheaters (140), continuous casting and cooling operations (144 and 145), vacuum tank degasser (208), EAF Area Roof Monitor (142) and DRI Bin Vent Filters (210-212) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(h) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the Billet Inspection Line Shotblaster (90), Billet Grinding (87) and the 23 Stand Rolling Mill (88) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(i) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from each No.4 Pickling Line (178), No. 5 Pickling Line (176), 56 in Tandem Mill (177), 80 in. Tandem Mill (175), Temper Mill No. 28 (180) and Temper Mill No. 29 (181) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(j) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the reducing furnace (81A), galvanneal furnace (182A), No.4 Aluminizing line (84), flame heating furnace (183) and annealling furnace (174) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(k) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, conveyors, grinding and machining operations shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(l) Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the radiant tube furnace heating section (251A), radiant tube furnace soaking section (251B) and space heaters (256) shall not exceed 0.01 grain per dry standard cubic foot (gr/dscf).

326 IAC 6-1-2(b) (Nonattainment Area Particulate Limitations)

(a) Pursuant to 326 IAC 6-1-2(b), particulate matter (PM) emissions from the 41.5 MMBtu per hour heat input boiler (207) shall not exceed .01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.

(b) Pursuant to 326 IAC 6-1-2(b), particulate matter (PM) emissions from the boiler (257) shall

not exceed 0.01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.

326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements)

There are specific emissions limitations established in 326 IAC 6-1-10.1(d)(19) for the facilities in this permit. Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emission limitations apply to one (1) stack serving the multiple units specified when the facility descriptions notes “stack serving”, and to each stack of multiple stacks serving multiple facilities when the facility description notes “each stack serving”. Therefore, the requirements of 326 IAC 6-1-10.1 (d)(19) apply as follows:

(a) 326 IAC 6-1-10.1(d)(19) and CP 089-2016, issued on August 22, 1991, PM10 emissions from pulverized coal storage bin baghouse H (191) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

(b) PM10 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (5), shall not exceed 0.016 pounds/MMBtu and 4.70 pounds per hour.

(c) PM10 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (6), shall not exceed 0.016 pounds/MMBtu and 3.64 pounds per hour.

(d) PM10 emissions from the No. 7 blast furnace stockhouse pellet baghouse (168) shall not exceed 0.0052 grains per dry standard cubic foot and 4.00 pounds per hour.

(e) TSP emissions from the No. 7 blast furnace stockhouse coke baghouse (172) shall not exceed 0.01 grains per dry standard cubic foot and 2.00 pounds per hour.

(f) TSP emissions from the No. 7 blast furnace coke screening baghouse (169) shall not exceed 0.007 grains per dry standard cubic foot and 4.200 pounds per hour.

(g) PM10 emissions from the No. 7 blast furnace (West (canopy) baghouse) (166) shall not exceed 0.003 grains per dry standard cubic foot and 11.22 pounds per hour.

(h) TSP emissions from the No. 7 blast furnace (East (casthouse) baghouse) (167) shall not exceed 0.011 grains per dry standard cubic foot and 22.00 pounds per hour.

(i) PM10 emissions from the No. 7 blast furnace stove stack (3 units) (170) shall not exceed 0.0076 pounds per MMBtu and 6.32 pounds per hour.

(j) TSP emissions from the Windbox baghouse (7) shall not exceed 0.007 grains per dry standard cubic foot and 17.00 pounds per hour.

(k) TSP emissions from the Discharge end and cooler baghouse (8) shall not exceed 0.01 grains per dry standard cubic foot and 11.70 pounds per hour.

(l) System A-conveyor transfer with baghouse control (185) shall not exceed 0.003 grains per dry standard cubic foot, 0.17 pounds per hour.

(m) System C-conveyors and raw coal bins with baghouse control (186) shall not exceed 0.003 grains per dry standard cubic foot, 0.23 pounds per hour.

(n) System D-coal pulverizer with cyclone and baghouse control (187) shall not exceed 0.0015 grains per dry standard cubic foot, 0.93 pounds per hour.

(o) System E-coal pulverizer with cyclone and baghouse control (188) shall not exceed 0.0015 grains per dry standard cubic foot, 0.93 pounds per hour.

(p) System F-No. 7 blast furnace coal storage bin No. 1 with baghouse control (189) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

(q) System G-No. 7 blast furnace coal storage bin No. 2 with baghouse control (190) shall not exceed 0.003 grains per dry standard cubic foot, 0.09 pounds per hour.

(r) TSP emissions from the No. 2 BOF truck and ladle hopper baghouse (150) shall not exceed 0.0052 grains per dry standard cubic foot and 0.800 pounds per hour.

(s) TSP emissions from the No. 2 BOF alloy and flux storage baghouse (151) shall not exceed 0.0052 grains per dry standard cubic foot and 0.530 pounds per hour.

(t) TSP emissions from the No. 2 BOF charging aisle reladling and desulfurization baghouse (152) shall not exceed 0.011 grains per dry standard cubic foot and 28.30 pounds per hour.

(u) TSP emissions from the No. 2 BOF No. 10 off-gas scrubber stack (147) shall not exceed 0.058 pounds per ton and 16.00 pounds per hour.

(v) TSP emissions from the No. 2 BOF No. 20 off-gas scrubber stack (148) shall not exceed 0.058 pounds per ton and 16.00 pounds per hour.

(w) TSP emissions from the No. 2 BOF secondary ventilation system scrubber (149) shall not exceed 0.015 grains per dry standard cubic foot and 12.00 pounds per hour.

(x) TSP emissions from the No. 2 BOF ladle metallurgical station baghouse (154) shall not exceed 0.0052 grains per dry standard cubic foot and 2.00 pounds per hour.

(y) TSP emissions from the No. 2 BOF caster fume collection baghouse (159) shall not exceed 0.0052 grains per dry standard cubic foot and 2.00 pounds per hour.

(z) TSP emissions from the No. 2 BOF tundish dump baghouse (156) shall not exceed 0.0052 grains per dry standard cubic foot and 2.200 pounds per hour.

(aa) TSP emissions from the No. 4 BOF reladling and desulfurization baghouse stack (26 and 27) shall not exceed 0.0052 grains per dry standard cubic foot and 8.26 pounds per hour.

(bb) TSP emissions from the No. 4 BOF off-gas scrubber stack (38) shall not exceed 0.187 pounds per ton and 100.00 pounds per hour.

(cc) TSP emissions from the No. 4 BOF secondary ventilation system baghouse (37) shall not exceed 0.006 grains per dry standard cubic foot and 22.30 pounds per hour.

(dd) TSP emissions from the No. 4 BOF vacuum degassing baghouse (33) shall not exceed 0.01 grains per dry standard cubic foot and 4.280 pounds per hour.

(ee) PM10 emissions from the No.1 and No. 2 Kiln baghouse (45) shall not exceed 0.110 pounds per ton and 7.149 pounds per hour.

(ff) PM10 emissions from the Storage Silo baghouse (47) shall not exceed 0.085 pounds per ton and 5.530 pounds per hour.

(gg) PM10 emissions from the electric arc furnace shop ladle metallurgical station baghouse (143) shall not exceed 0.01 grains per dry standard cubic foot and 0.820 pounds per hour.

(hh) PM10 emissions from the electric arc furnace shop direct shell evacuation system baghouse roof monitor (142) shall not exceed 0.0052 grains per dry standard cubic foot and 17.14 pounds per hour.

(kk) PM10 emissions from the No.2 AC Station Boilers 211-213 shall not exceed 0.018 lbs/ MMBtu and 16.20 pounds per hour.

(ll) PM10 emissions from the No. 5 Boilerhouse 501-503 shall not exceed 0.013 lbs/ MMBtu and 18.05 pounds per hour.

(mm) PM10 emissions from the Pugh Ladle Car Preparation and Iron Pigging (43) shall not exceed 0.011 gr/dscf and 26 lbs/hr.

(nn) TSP emissions from the No. 6 roll shop rollshot blaster baghouse (200) shall not exceed 0.0052 gr/dscf and 0.200 lbs/hr.

(oo) TSP emissions from the Electric shop shotblaster baghouse (201) shall not exceed 0.0052 gr/dscf and 1.070 lbs/hr.

(pp) TSP emissions from the No. 4 roll shop Ervin shotblaster baghouse (203) shall not exceed 0.0052 gr/dscf and 0.210 lbs/hr.

(qq) TSP emissions from the No. 4 roll shop Wheelabrator shotblaster (204) baghouse shall not exceed 0.0052 gr/dscf and 0.260 lbs/hr.

(rr) TSP emissions from the No. 4A roll shop Ervin shotblaster baghouse (205) shall not exceed 0.0052 gr/dscf and 0.210 lbs/hr.

(ss) TSP emissions from the No. 4A roll shop Pangborn shotblaster (206) baghouse shall not exceed 0.0052 gr/dscf and 0.260 lbs/hr.

326 IAC 6-1-10.1(e) (Opacity)

The following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict.

(a) The opacity for the No. 7 Blast Furnace operations (Casthouse Roof Monitor (171)) shall not exceed fifteen percent (15%), six (6) minute average.

(b) The opacity for the No. 2 BOF truck and ladle hopper baghouse (150) shall not exceed five percent (5%), three (3) minute average.

(c) The opacity for the No. 2 BOF alloy and flux storage baghouse (151) shall not exceed five percent (5%), three (3) minute average.

(d) The opacity for the No. 2 BOF charging aisle reladling and desulfurization baghouse (152) shall not exceed five percent (5%), three (3) minute average.

(e) The opacity for the No. 2 BOF No. 10 off-gas scrubber stack (147) shall not exceed twenty percent (20%), six (6) minute average.

(f) The opacity for the No. 2 BOF No. 20 off-gas scrubber stack (148) shall not exceed twenty percent (20%), six (6) minute average.

(g) The opacity for the No. 2 BOF roof monitor (153) shall not exceed twenty percent (20%), three (3) minute average.

(h) The opacity for the No. 2 BOF secondary ventilation system scrubber (149) shall not exceed twenty percent (20%), six (6) minute average.

(i) The opacity for the No. 2 BOF ladle metallurgical station baghouse (154) shall not exceed

five percent (5%), three (3) minute average.

(j) The opacity for the No. 2 BOF caster fume collection baghouse (159) shall not exceed five percent (5%), three (3) minute average.

(k) The opacity for the No. 2 BOF tundish dump baghouse (156) shall not exceed five percent (5%), three (3) minute average.

(l) The opacity for the No. 4 BOF, reladling and desulfurization baghouse (26 and 27) shall not exceed five percent (5%), three (3) minute average.

(m) The opacity for the No. 4 BOF roof monitor (29) shall not exceed twenty percent (20%), three (3) minute average.

(n) The opacity for the No. 4 BOF off-gas scrubber (38) shall not exceed twenty percent (20%), six (6) minute average.

(o) The opacity for the No. 4 BOF secondary ventilation system baghouse (37) shall not exceed five percent (5%), three (3) minute average.

(p) The opacity for the No. 4 BOF vacuum degassing material handling baghouse (33) shall not exceed five percent (5%), three (3) minute average.

(q) The opacity for the electric arc furnace direct shell evacuation system baghouse (141) shall not exceed five percent (5%), six (6) minute average.

(r) The opacity for the electric arc furnace shop roof monitor (142) shall not exceed twenty percent (20%), six (6) minute average.

(s) The opacity for the electric arc furnace shop ladle metallurgical station baghouse (143) shall not exceed five percent (5%), six (6) minute average.

326 IAC 6-1-10.1(h) (Particulate Matter)

Pursuant to 326 IAC 6-1-10.1(h)(13), the following combustion sources shall fire natural gas only:

(a) the 12" Bar Mill billet reheat furnace (89) shall fire natural gas only and shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 1.090 lbs/hour

(b) No.3 Galvanizing Line (81) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.51 lbs/hour.

(c) No. 5 Galvanizing Line (182) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.44 lbs/hour.

(d) No. 1 Normalizing Line (184) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.13 lbs/hour.

(e) No. 3 Continuous Anneal Line (173) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.25 lbs/hour.

(f) No. 5 and No. 6 Batch Anneals (112 and 113) shall not exceed PM10 emissions of 0.003 lbs/MMBtu and 0.987 lbs/hour.

326 IAC 6-1-10.1(k) (Blast Furnace Specific Control Requirements)

Pursuant to 326 IAC 6-1-10.1(k)(5)(F), tapping emissions from the No. 7 blast furnace casthouse shall be controlled by a hood vented to a baghouse. Canopy hoods shall be installed above each of the four (4) furnace tap holes. The hoods shall be ducted to a new three hundred seventy thousand

(370,000) actual cubic feet per minute minimum design flow rate baghouse. Each hood shall be located just above the casthouse crane and extend via vertical sheeting to the casthouse roof. The system shall provide a minimum of one hundred eighty-five thousand (185,000) actual cubic feet per minute of air flow (fume capture) to each hood, when the corresponding tap hole is being drilled or plugged.

326 IAC 6-1-10.1 (Continuous Compliance Plan)

Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. The following have been included in this permit:

(a) Pursuant to 326 IAC 6-1-10.1(l), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other document-able emission factors acceptable to the commissioner.

(b) Pursuant to 326 IAC 6-1-10.1(p) the Permittee shall include the following information or applicable procedures, or commit to the following actions:

(1) Pursuant to 326 IAC 6-1-10.1(p)(3)(C), the plans for blast furnaces shall include the following:

(A) Describe procedures, including frequency, for inspection of the following elements of a capture system:
(i) Pressure sensors.
(ii) Dampers.
(iii) Damper switches.
(iv) Hood and ductwork for the presence of holes.
Maintain records of the maintenance and any repairs made.

(B) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(C) Describe any fume suppression system, including the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. Fume suppression system means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(D) Describe the record keeping for the following elements of the iron production cycle:
(i) Time of hole drilling.
(ii) Time of tapping.
(iii) Time of hole plugging.

(E) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:
(i) Tuyres.
(ii) Bleeder valves.
(iii) Large and small bells.
(iv) Uptakes and downcomers (to minimize backdrafting).
(v) Standby devices.

(F) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, such as dust catchers and scrubbing equipment to assure operation within design parameters.

(2) Sinter production shall comply with the following:
- (A) Describe routine startup and shutdown procedures and other work practices which are followed to reduce emissions and equipment malfunctions.
- (B) Describe procedures for inspection of equipment to identify areas which may affect particulate emissions, including the following:
  - (i) Points of wear.
  - (ii) Distorted grate bars.
  - (iii) Leaking machine seals.
  - (iv) Holes in ducts.
  - (v) Holes in flapper valves.
- (C) Describe procedures for monitoring mechanical and electrical inspection records.
- (D) Describe procedures used to minimize dirt and debris accumulation on the facility floor.
- (E) Describe procedures for monitoring burden parameters, including base to acid ratio and hydrocarbon content.
- (F) Describe the routine for plant operation during equipment failure, such as screening station failure.
- (G) At least monthly, inspect the operational status of the following elements of the capture system:
  - (i) Pressure sensors.
  - (ii) Dampers.
  - (iii) Damper switches.
  - (iv) Hood and ductwork for the presence of holes.
  - (v) Ductwork for accumulation of dust.
  - (vi) Fans for erosion.

  Maintain records of the inspections and any repairs.

(3) Pursuant to 326 IAC 6-1-10.1(p)(3)(A), the plans for the Basic oxygen process (BOP, BOF, QBOP) shall include the following:
- (A) Describe the capture and control devices used to control particulate emissions from each phase of the steel production cycle, including the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.
- (B) Describe any fume suppression system, including the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, “fume suppression system” means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.
- (C) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.
- (D) Describe the off-gas system leak detection and repair record keeping practices.
- (E) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.
- (F) Describe practices that reduce PM_{10} and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping slag.
- (G) At least monthly, inspect the operational status of the following elements of the capture system:
  - (i) Pressure sensors.
  - (ii) Dampers.

(iii) Damper switches.
(iv) The hood and ductwork for the presence of holes.
(v) Ductwork for accumulation of dust.
(vi) Fans for erosion.
Maintain records of the inspections and any repairs.

(4) Pursuant to 326 IAC 6-1-10.1(p)(1), the plans for the Lime Plant: shall include the following:

Monitor opacity at the kilns and control system vents during normal operation of the kiln with a continuous emission monitor or through self-monitoring of opacity. 40 CFR 60, Appendix A, Method 9* shall be used to determine opacity if the facility is controlled by a positive pressure fabric filter.

(5) Pursuant to 326 IAC 6-1-10.1(p)(3)(B) Electric arc furnace, including the following:

(A) List the furnace operating sequences to be followed in case of multivessel operation. Describe the capture and control devices used to control particulate emissions in each phase of the steel production cycle, including exhaust rate and dampers, blast gates, instrumentation operation, and control. Include a drawing that shows:
(i) the location of the furnace within the facility in relation to capture hoods and control devices, roof vents, and other building openings; and
(ii) the location of other processes within the facility that have potential to generate emissions, such as casting and ladle repair.

(B) Describe the procedure for recording the following:
(i) Time of furnace charging, furnace melting, and furnace refining.
(ii) Tapping start and stop times.
(iii) Charge weight for each heat.
(iv) Tap weight for each heat.

(C) At least monthly, inspect the operational status of the following elements of the capture system:
(i) Pressure sensors.
(ii) Dampers.
(iii) Damper switches.
(iv) Hood and ductwork for the presence of holes.
(v) Ductwork for accumulation of dust.
(vi) Fans for erosion.
Maintain records of the inspections and any repairs.

(D) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(E) Once per heat, either check and record the control system fan motor ampere and damper position or monitor flow rate through each separately ducted hood and/or duct used to capture emissions from the electric arc furnace operation.

(F) Take visible emission readings of the direct shell evacuation system and the roof monitor at least once a day. The readings shall be taken during one (1) single steel production cycle and will be concurrent with the observations in subsection (k)(5)(H)(iii). The opacity observations shall be taken according to 40 CFR 60, Appendix A, Method 9 and consist of at least one (1) six (6) minute observation each during charging and tapping and three (3) six (6) minute observations during melting and refining.

(G) Report to the department on a quarterly basis control system fan motor amperage values that exceed fifteen percent (15%) of the value or operation at volumetric flow rates lower than those established during the performance test in subsection (k)(5)(H)(i). Operation above these values may be considered as unacceptable operation of the electric arc furnace

equipment and the emissions capture and control system by the commissioner. Unless alternative values are established according to the procedures prescribed in subsection (l).

(H) Keep a record of any process and control equipment upsets, malfunctions, or activities within the electric arc furnace facility that may have resulted in excessive emissions. The records shall consist of the nature of event, time, and duration.

(6) Pursuant to 326 IAC 6-1-10.1(p)(4), the plans for the Fuel combustion boilers shall include the following:

(A) The requirements of this subdivision shall not relax the fuel monitoring and reporting requirements of 326 IAC 7-1.1-1 for the sources this section applies to.

(B) Affected sources shall maintain records of the following information:

(i) Operational status of each facility for each day.

(ii) The daily measurements for each facility of the type of fuel used, amount of each type of fuel used, and heat content of each type of fuel used.

(iii) The TSP or PM_{10} emission factors for each type of fuel to be used as estimated by the AP-42 or stack test method.

(iv) The method used to monitor the fuel amount and heat content in addition to the frequency.

(v) The control efficiency of the particulate control device and the method of determination.

(vi) Average daily PM_{10} emissions (or TSP if applicable) for each facility, expressed in pounds per million British thermal units.

(B) The following guidance may be used to estimate emissions:

(i) For heat content, AP-42, Volume 1, Appendix A, Table A-3, “Typical Parameters of Various Fuels” Fifth Edition, January 1995, Supplements A through G, December 2000.

(ii) For emission factors (TSP or PM_{10}), EPA 450/4-90-003, “AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants”.

(iii) For control equipment efficiency, manufacturer’s warranty or as determined by source.

(iv) Sources may substitute other site-specific values for the values as indicated if they can be shown to be acceptable to the department.

(7) Pursuant to 326 IAC 6-1-10.1(q), the plans for the particulate matter control equipment shall provide that the following control equipment related information will be maintained at the source’s property and will be available for inspection by department personnel:

(A) Startup, shutdown, and emergency shutdown procedures.

(B) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.

(C) Manufacturer’s recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer’s recommendations are not available, procedures shall be developed by the source.

(D) Contents of the operator’s training program and the frequency with which the training is held.

(E) A list of spare parts available at the facility.

(F) A list of control equipment safety devices, for example, high temperature

sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.

(G) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).

(8) Pursuant to 326 IAC 6-1-10.1(p)(3)(F), the plans for a facility Waste disposal and recycling practices of iron and steel scrap and other metallic scrap shall include the following:

(A) Provide a description of the routine activities involving disposal and reclamation of iron and steel. The visible emissions from such activities shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(B) Maintenance of process vessels, for example, pugh ladles, shall be performed in enclosed structures. The visible emissions from such structures shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(C) Emissions from all steel scrap burning or cutting and oxygen lancing operations shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(9) Pursuant to 326 IAC 6-1-10.1(r)(3), the plans for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection 326 IAC 6-1-10.1(m), such as the following:

(A) Operating parameters, such as the following:
(i) Gas flow rate.
(ii) Inlet and outlet temperatures of gas to and from scrubber.
(iii) Liquid flow rate to scrubber.
(iv) Pressure drop across scrubber.
(v) pH of liquid to scrubber.
(vi) Fan and pump currents.
A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.

(B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:

(i) Daily inspection of the following:
(AA) Scrubbing liquid flow rates to scrubber.
(BB) Pressure drop across scrubber.
(CC) Fan and pump amperages for values outside the operating range.
Corrective actions taken shall be recorded.

(ii) Monthly inspection of the following:
(AA) Seals for abrasion.
(BB) Corrosion and leaks.
(CC) Fans for abrasion, corrosion, and solids build-up.

(DD) Pipes for abrasion, corrosion, and plugging.
(EE) Throat wear in the venturi scrubber.
(FF) Sensors, alarm systems, and bypass devices for proper operation.
(GG) Entrainment separator for blockage.
(HH) Spray nozzles for plugging or excessive wear.

(10) Pursuant to 326 IAC 6-1-10.1(r)(1), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection 326 IAC 6-1-10.1(m), such as the following:

(A) Operating parameters, such as the following:
(i) Pressure drop across the baghouse.
(ii) Gas flow rate at baghouse inlet.
(iii) Gas temperatures at inlet.
A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.

(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.

(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:

(i) Daily inspections shall include the following:
(AA) Pressure drop.
(BB) Fan amperage.
(CC) Cleaning cycle.
(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.
(EE) Dust discharge equipment for proper operation.
(FF) General check for abnormal audible and visual conditions.

(ii) Weekly inspections of the following:
(AA) Moving parts on discharge system.
(BB) Bypass and isolation damper operation.
(CC) Bag tension.
(DD) Compressed air lines, oilers, and filters.
(EE) Manometer lines.
(FF) Temperature indicating equipment.
(GG) Bag cleaning sequence.
(HH) Drive components on fans.

(iii) Monthly inspections of the following:
(AA) Bag seating condition.
(BB) Moving parts on shaker baghouses.
(CC) Fan corrosion and blade wear.
(DD) Hoses and clamps.
(EE) Bags for leaks and holes.
(FF) Bag housing for corrosion.

(iv) Quarterly inspections of the following:
(AA) Bags.
(BB) Ducts for dust build-up.
(CC) Damper valves for proper setting.
(DD) Door gaskets.

(EE) Baffle plate for wear.

(v) Annual inspection of the following:
(AA) Welds and bolts.
(BB) Hoppers for wear.
(CC) Cleaning parts for wear.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Combustion facilities shall use natural gas as the only fuel, except as listed in 326 IAC 7-4.1.1 or an alternative SO2 limit is provided. Therefore, the requirements of 326 IAC 7-1.1 will not apply.

326 IAC 7-4-1.1

Pursuant to 326 IAC 7-4.1.1(c)(10)(C), the sulfur dioxide emission rate from these units shall not exceed the following:

(a) SO_2 emissions from the stack serving No. 5 Blast Furnace Stoves (3 units) (5) shall not exceed 0.140 pounds per MMBtu.

(b) SO_2 emissions from the stack serving No. 6 Blast Furnace Stoves (4 units) (6) shall not exceed 0.140 pounds per MMBtu.

(c) SO_2 emissions from the No. 7 blast furnace stove stack (170) shall not exceed 0.146 pounds per MMBtu.

(d) SO_2 emissions from the sinter plant windbox (7) shall not exceed 167 pounds per hour.

(e) the allowable sulfur dioxide (SO_2) emission rate from the No. 1 and No. 2 Kiln baghouse (45) shall not exceed 0.46 lb/MMBtu and shall fire only natural gas.

(f) SO2 emissions from the 12" Bar Mill Billet reheat furnace (89), shall be fired by natural gas only.

(g) Pursuant to CP 089-3551, issued on October 28, 1994 and 326 IAC 7-4-1.1, SO2 emissions from burners at the No. 1 Normalizer Line (184) shall be minimized by firing natural gas only.

(h) Pursuant to 326 IAC 7-4-1.1, SO2 emissions from the No. 5 and No.6 Batch Anneal furnaces (112 and 113), shall be minimized by firing natural gas only.

(il) SO_2 emissions from No.2 AC Station Boilers 211-213, shall not exceed 0.228 lbs/ MMBtu.

(j) SO_2 emissions from No. 5 Boilerhouse 501-503 shall not exceed 0.104 lbs/MMBtu.

326 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2, for cold cleaning operations existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter and St. Joseph Counties and which have 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.

326 8-3-5 (Volatile Organic Compounds (VOC))

Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control),for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee 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.

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.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)
326 IAC 8-7 applies to this source because the source is in Lake County and the source has the potential to emit greater than ten (10) tons per year of VOC. However, as specified in 326 IAC 8-7-2(b) the facilities are exempt from emission standards or limitations.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
Pursuant to 326 IAC 8-9-1, the Permittee is required to keep records on the information in 326 IAC 8-9-6(a)-(b) for all storage vessels containing recycled oil, #2 fuel oil, #6 fuel oil, bunker oil and reclaim oil.

326 IAC 8-13-3 (Sinter Plant Volatile Organic Compounds (VOCs))
Pursuant to 326 IAC 8-13-3(b) and (c), the sinter plant windbox exhaust gas VOC emissions shall not exceed the VOC emission limits calculated as follows:

(a) During the period May 1 through September 30, the total VOC emissions (the seasonal cap) shall not exceed the VOC emission limit of 150,973 pounds of VOC. Calculated as follows:

VOC (lbs) = 0.25 lb/ton of sinter produced X average daily sinter production rate (3948 tons/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 1162 pounds of VOC. Calculated as follows:

VOC (lbs/day) = 0.25 lb/ton of sinter produced X maximum actual daily sinter production rate (4648 tons/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 the VOC emission limit of 987 lbs VOC/day. Calculated as follows:

VOC (lbs/day) = 0.25 lb/ton of sinter produced X average daily sinter production rate (3948 tons/day)

A high ozone level day shall be predicted by the Permittee by using notification from IDEM, OAQ of an ozone action day.

(d) 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.

(e) 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) Measure sinter at the P2 scale

(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) Maintain the removal efficiency that is currently estimated at 90% at this value. Ispat Inland, Inc. will continue operations to prevent “blinding” of the sinter plant windbox baghouse bags. The continuous emissions monitoring system will provide feedback on VOC emissions, if oil and grease content needs to be controlled. This procedure reflects current operation only and is subject to change while still meeting the emission limits in 326 IAC 8-13-3.

(5) 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.

(6) 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.

326 IAC 9 (Carbon Monoxide Emission Limitations)

(a) No. 5 and No. 6 Blast Furnaces commenced operation before March 21, 1972. Therefore, pursuant to 326 IAC 9-1-1(a) the No. 5 and No. 6 Blast Furnaces are not subject to the requirements of this rule.

(b) No. 7 Blast Furnace

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No.7 Blast Furnace waste gas stream unless the waste 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

(c) No. 2 BOF

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. 2 BOF, unless the waste 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 one (1) hour Indiana ambient air quality value for carbon monoxide.

(d) No. 4 BOF

No. 4 BOF commenced operation before March 21, 1972. Therefore, pursuant to 326 IAC 9-1-1(a) the No.4 BOF is not subject to the requirements of this rule.

326 IAC 10-4 (NOx Budget Trading Program)

Pursuant to 326 IAC 10-4-2(27) the following units are considered “large affected units” because each unit commenced operation before January 1, 1997, has a maximum design heat input greater than two hundred fifty million (250,000,000) Btus per hour, and did not serve during 1995 or 1996 a generator producing electricity for sale under a firm contract to the electric grid: No. 2 AC Station including Boilers 211-213 and No. 5 Boilerhouse including Boilers 501-503. Pursuant to 326 IAC 10-4-1(a)(2), a “large affected unit” is a NO_X budget unit. Because this source meets the criteria of having one (1) or more NO_X budget units, it is a NO_X budget source. The Permittee shall be subject to the requirements of this rule. The NO_X budget permit is in section E of the Part 70 permit. The Technical Support Document for the NO_X budget permit is provided as Appendix A to this Technical Support Document.

The No. 4 AC Station is not included in the NO_X budget permit because the units are retired and do not require a NO_X budget permit while retired.

Testing Requirements

Ispat Inland, Inc. has applicable performance testing conditions as specified below:

(a) In cases where the IDEM requires SO2 testing for fuel burning facilities, Ispat Inland Inc.’s Fuel sampling and analysis protocol as submitted on December 27, 1988, as required by 326 IAC 7-4-1.1(d), requires sampling and sulfur analysis of sulfur containing fuels used at the source. Ispat Inland Inc. uses a SO2 emission factor developed through extensive stove stack testing. The sample analysis is used to verify the emission factor. Ispat Inland, Inc. can demonstrate compliance with applicable SO2 limits by emissions calculations at following units:

(1) No.5 and No.6 Blast Furnace Stoves

(2) No.7 Blast Furnace Stoves

(3) Sinter Plant Wndbox

(4) Lime Plant Kilns

(5) No. 2 AC Station

(6) No. 5 Boilerhouse

(b) No. 5 and 6 Blast Furnace process

Within thirty (30) months of issuance of this permit or 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 PM10 testing on the No. 5 Blast Furnace Stoves (3 units) (stack 5) and No. 6 Blast Furnace Stoves (4 units) (stack 6) utilizing a testing method approved by the Commissioner to show compliance with condition D.1.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

(c) No. 7 Blast Furnace process

(1) Within thirty (30) months of issuance of this permit or 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 PM10 testing on the No. 7 Blast Furnace Stoves (3 units) (stack 170) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(2) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on the No. 7 blast furnace (West baghouse) (166) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(3) Within thirty (30) months of issuance of this permit, or 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 TSP testing on the No. 7 blast furnace (East baghouse) (167) utilizing a testing method approved by the Commissioner to show compliance with condition D.2.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(4) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.2.8 for stack 170 for the Stoves, stacks 166 and 167 the West and East baghouses for the No.7 Blast Furnace casthouse. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

(5) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with

condition D.2.8 for stack 170 for the Stoves, stack 134 for the No.5 Boiler House, stacks 166 and 167 the West and East baghouses for the No.7 Blast Furnace casthouse. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing

(d) Sinter Plant process

Within thirty (30) months of issuance of this permit, or two and one half (2.5) 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 TSP testing on the Windbox baghouse (stack 7) utilizing a testing method approved by the Commissioner to show compliance with conditions D.3.3, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(e) No. 2 BOF and No. 4 BOF

(1) Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No.2 BOF No.10 and No. 20 furnaces (stacks 147 and 148) utilizing a testing method approved by the Commissioner to show compliance with conditions D.5.3 and 5.4, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(2) Within thirty (30) months of issuance of this permit, or 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 TSP and opacity testing on the No. 4 BOF (stack 38) utilizing a testing method approved by the Commissioner to show compliance with conditions D.6.3 and 6.4, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(3) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform Lead (Pb) emissions testing, utilizing methods approved by the Commissioner to show compliance with emission factors in Appendix A to this permit, for stack 147 or 148 for the off-gas scrubber for 10 BOF or 20 BOF and stack 149 for the secondary ventilation system scrubber at the No.2 BOF. Testing shall be conducted in accordance with Section C –Performance Testing.

(4) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform Lead (Pb) emissions testing, utilizing methods approved by the Commissioner to show compliance with emission factors in Appendix A to this permit, for stack 38 for the off-gas scrubber for No.4 BOF and stack 37 for the secondary ventilation system baghouse at the No.4 BOF. Testing shall be conducted in accordance with Section C –Performance Testing.

(f) No.1 Electric Arc Furnace

Within thirty (30) months of issuance of this permit, or 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 SO2 and opacity testing on the electric arc furnace baghouse (stack 141) and the Ladle Metallurgical Facility (stack 143) utilizing a testing method approved by the Commissioner conditions D.8.6 and D.8.8, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(g) No. 3 Cold Strip Mill

(1) Within twelve (12) months of permit issuance, the Permittee shall conduct a performance test for the No. 4 Pickling Line and No. 5 Pickling Line to determine and demonstrate compliance with the applicable emission limitation according to the requirements of 40 CFR Part 63.7 (Subpart A, General Provisions). This initial performance test shall meet the following minimum requirements:

(A) 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 or measure the concentration of HCl in gases exiting the process or the emission control device.

(B) 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.

(C) 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.

(2) 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 Part 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.

(3) Performance tests shall be conducted either annually or according to an alternative schedule approved by IDEM, OAQ, but no less frequently than every two and half (2 .5) 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.

(4) Pursuant to 40 CFR Part 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 Part 63.7(c), and, if requested by IDEM, OAQ, to have an observer present during the test.

(5) The following test methods from Appendix A of 40 CFR Part 60 shall be used to determine compliance under D.13.2 if required:

(A) 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;

(B) Method 2, to determine gas velocity and volumetric flow rate;

(C) Method 3, to determine the molecular weight of the stack gas;

(D) Method 4, to determine the moisture content of the stack gas; and

(E) 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.

(F) The Permittee may use equivalent alternative measurement methods approved by U.S. EPA.

(h) Utilities

(1) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on stacks 125-130 for the No.2 AC Station utilizing a testing method approved by the Commissioner to show compliance with condition D.13.1, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(2) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after reline project completion, but no later than 180 days after the start of operation after the completion of reline project at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

(3) Pursuant to Significant Source Modification 089-16966-00316, issued on November 26, 2003, within 60 days of achieving stable production rate after the start of four stove operation, but no later than 180 days after the start of four stove operation at the No.7 Blast Furnace the Permittee shall perform CO emissions testing, utilizing methods approved by the Commissioner to show compliance with condition D.13.3 for stack 134 for the No.5 Boiler House. Testing for the fuel combustion emission units shall be performed when the fuel having worst case emission factor is utilized. Testing shall be conducted in accordance with Section C –Performance Testing.

(4) Within thirty (30) months of issuance of this permit, or 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 PM10 testing on, stack 134 for the No.5 Boiler House.utilizing a testing method approved by the Commissioner to show compliance with condition D.13.1, in accordance with Section C - Performance Testing. This test shall be repeated at least once every two and one half (2.5) years from the date of this valid compliance demonstration.

(i) CCL No. 6

Pursuant to Significant Source Modification 089-10472-00316, issued on May 19, 1999, the Permittee shall perform compliance stack tests for VOC emissions from the radiant tube furnace heating and soaking sections (251A and 251B) within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed in accordance with Section C - Performance Testing using the methods specified in the rule or as approved by the Commissioner.

Compliance Requirements

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.

Ispat Inland, Inc. has applicable compliance monitoring conditions as specified below:

(a) No. 5 and 6 Blast Furnace process

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) No Visible emission notations of the No. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System

Scrubber (2) stacks are necessary because the stacks discharge inside the casthouse.

(3) The Permittee shall record the pressure drop and flowrate of the scrubber used in conjunction with the No. 5 Blast Furnace Casthouse Collection System Scrubber (1) and No. 6 Blast Furnace Casthouse Collection System Scrubber (2) at least once per shift when the No. 5 Blast Furnace Casthouse and No. 6 Blast Furnace Casthouse are in operation when venting to the atmosphere. The scrubbers shall be operated as follows:

(A) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse North scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of 400 gallons per minute 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 reading that is outside the 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 violation of this permit.

(B) When for any one reading, the pressure drop across the No. 5 Blast Furnace Casthouse South scrubber (1) is outside the normal range of 6.5-9.0 kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of 400 gallons per minute 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 reading that is outside the 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 violation of this permit.

(C) When for any one reading, the pressure drop across the No. 6 Blast Furnace Casthouse scrubber (2) is outside the normal range of 6.0-9.0kPa 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. When for any one reading, the flow rate of the scrubber is below the minimum of 400 gallons per minute 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 reading that is outside the 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 violation of this permit.

(4) An inspection shall be performed each calendar quarter of the scrubbers controlling the No. 5 Blast Furnace Casthouse scrubbers (1) and No. 6 Blast Furnace Casthouse scrubber (2) that vents to the atmosphere.

(5) Pursuant to U.S. EPA Judgement Order dated February 6, 1989 and in order to comply with D.1.5:

(A) The Permittee shall observe a minimum of one (1) cast per week (four (4) per month) per operating blast furnace.

(B) The Permittee shall observe a minimum of twenty (20) cast per furnace during any three month period.

(C) There shall be two (2) observers recording data. One (1) observer (outside) shall observe and record visible emissions that exit the casthouse. One (1) observer (inside) shall be situated inside the casthouse positioned, consistent with the safety of the observer. The Outside observer shall be certified in accordance with 40 CFR Part 60, Appendix A, Method 9.

(D) The observations of each cast shall begin with the opening of the taphole and conclude no sooner than one minute after the tap hole has been stopped.

(6) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with condition D.1.6, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:

(A) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.

(B) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.

(b) No. 7 Blast Furnace process

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the No. 7 blast furnace canopy baghouse (166) and No. 7 blast furnace casthouse baghouse (167) stack exhausts 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace canopy baghouse (166), at least once per shift when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.1-2.0 kPa 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 reading that is outside the 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 violation of this permit.

(4) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No. 7 blast furnace casthouse baghouse (167), at least once per shift when the above processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.4-1.3 kPa 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 reading that is outside the 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 violation of this permit.

(5) An inspection shall be performed each calendar quarter of all bags controlling the No. 7 blast furnace canopy baghouse (166), No. 7 blast furnace casthouse baghouse (167) and No. 7 blast furnace stove stack (3 units) (170) when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(6) The Permittee shall install and maintain a monitor to detect the presence of a flame at the flare tips (3 flares) at the No. 7 Blast Furnace flare (195). The presence of a flame at the flare tip shall be monitored at all times when the vapors are being vented to the flare. The monitor shall be equipped with an automatic alarm, which activates when the presence of a flame is not detected during periods when vapors are being vented to the flare. Whenever the alarm is activated, 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 with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(7) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with condition D.2.13, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:

(A) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.

(B) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol

submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.

(8) No additional monitoring is required for following equipment: Coke screening station controlled by baghouse exhausting to stack 169, Stockhouse coke handling controlled by baghouse exhausting to stack 172, Stockhouse pellet handling controlled by baghouse exhausting to stack 168 and No.7 Blast Furnace stoves exhausting to stack 170 because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(c) Sinter Plant process

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted and subsequently approved by the IDEM.

(2) Visible emission notations of the Sinter Plant windbox main baghouse stack, discharge end baghouse stack and upper screening station baghouse 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the pressure drop across the windbox main baghouse (7) used in conjunction with the sinter plant operations, at least once per shift when the windbox, crusher, and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main 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-Compliance Response Plan-Preparation, Implementation, Records and Reports. A reading that is outside the 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 violation of this permit.

(4) The Permittee shall record the pressure drop across discharge end baghouse (8) used in conjunction with the sinter plant operations, at least once per shift when the windbox, crusher, and cooler are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the windbox main baghouse is outside the normal range of 2.0 and 8.0 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 reading that is outside the 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 violation of this permit.

(5) Pursuant to CP 089-9176, issued on March 30, 1998, an inspection shall be performed each calendar quarter of the upper screening station baghouse (11). Defective bags shall be replaced. A record shall be kept of the results of the inspection and the number of bags replaced. The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) 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) hours of discovery of the failure and shall include a timetable for completion. 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).

(5) An inspection shall be performed within the last month of each calendar quarter of all bags controlling the the windbox main baghouse (7) and discharge end baghouse (8) when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

(6) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with condition D.3.5, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:

(A) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.

(B) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.

(7) Pursuant to 326 IAC 8-13-8(a)(1) and (2), the Permittee shall demonstrate compliance with the emission limits in 326 IAC 8-13-3 by continuously monitoring VOC emissions and comply with the CEM maintenance, operating procedures , quality assurance procedures, and performance specifications in 326 IAC 3-5.

(d) Pulverized Coal Injection (PCI) system for Nos. 5, 6 and 7 blast furnaces

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the Coal pulverizer D baghouse (187) and Coal pulverizer E baghouse (188) exhausts 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the Coal pulverizer D (187) and Coal pulverizer E (188) at least once per shift when the coal pulverizers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 1.5 kPa 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 violation of this permit

(4) An inspection shall be performed each calendar quarter of all bags controlling the Coal pulverizer D (187) and Coal pulverizer E (188) process operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(5) No additional monitoring is required for the remaining baghouses because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(e) No. 2 BOF

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the No. 2 BOF shop charging aisle reladling and desulfurization (Hot Metal Station) baghouse (152), No. 2 BOF shop No. 10 BOF and No. 20 BOF off-gas scrubber stacks (147) and (148), and No. 2 BOF shop secondary ventilation system scrubber (149) exhausts 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the total static pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 10 BOF (147), at least once per shift when the 10 BOF is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 violation of this permit.

(4) The Permittee shall record the total static pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop, 20 BOF (148), at least once per shift when the 20 BOF is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 10 and 15 kPA or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 80 liter per second, or a minimum rate 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 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 violation of this permit.

(5) The Permittee shall record the total static pressure drop and flow rate of the scrubber used in conjunction with the No.2 BOF shop secondary ventilation system (149), at least once per shift during the hot metal charge. When for any one reading, the pressure drop across the baghouse is outside the normal range of 25 and 45 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 1250 gallons per minute, or a minimum rate 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 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 violation of this permit.

(6) An inspection shall be performed each calendar quarter of the No. 2 BOF shop No. 10 BOF and No. 20 BOF off-gas scrubber (147) and (148), and No. 2 BOF shop secondary ventilation system scrubber (149). Inspections required by this condition shall not be performed in consecutive months.

(7) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the No. 2 BOF shop charging aisle reladling and desulfurization (Hot Metal Station) (152) at least once per shift when the Hot metal station in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0-10.0 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. 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 violation of this permit.

(8) An inspection shall be performed each calendar quarter of all bags controlling the No. 2 BOF charging aisle reladling and desulfurization (152) process operations. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(9) The Permittee shall install and maintain a monitor to detect the presence of a flame at the flare at the No. 2 BOF shop, 10 BOF (147), and 20 BOF (148). The presence of a flame at the flare tip shall be monitored at all times when the vapors are being vented to the flare. The monitor shall be equipped with an automatic alarm, which activates when the presence of a flame is not detected during periods when vapors are being vented to the flare. Whenever the alarm is activated, 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 with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(10) No additional monitoring is required for the remaining control devices because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(f) No. 4 BOF

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the No. 4 BOF shop off-gas scrubber (38), No. 4 BOF shop secondary ventilation system baghouse (37), No. 4 BOF shop reladling and desulfurization (Hot Metal Station) baghouse north (26) and No. 4 BOF reladling and desulfurization (Hot Metal Station) baghouse south (27) 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. 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. 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. 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. 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 violation of this permit.

(3) An inspection shall be performed each calendar quarter of the No. 4 BOF shop off-gas scrubber (38). Inspections required by this condition shall not be performed in

consecutive months.

(4) The Permittee shall record the total static pressure drop and flow rate of the scrubber used in conjunction with the No. 4 BOF shop off-gas scrubber (38), at least once per shift when the 4 BOF shop is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 25 and 40 inches of water or a range established during the latest stack test and the flow rate of the scrubber is below the minimum of 600 gallons per minute, or a minimum rate 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 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 violation of this permit.

(5) The Permittee shall record the pressure drop across the baghouse and the fan amperage of the baghouse used in conjunction with the No. 4 BOF reladling and desulfurization baghouse (26) at least once per shift when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10 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 reading that is outside the 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 violation of this permit.

(6) The Permittee shall record the pressure drop across the baghouse and the fan amperage of the baghouse used in conjunction with the No. 4 BOF reladling and desulfurization baghouse (27) at least once per shift when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0-14.0 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 reading that is outside the 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 violation of this permit.

(7) The Permittee shall record the pressure drop across the baghouse and the fan amperage of the baghouse used in conjunction with No. 4 BOF secondary ventilation system baghouse (37) at least once per shift when the Hot metal station is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.5-10.0 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. A reading that is outside the 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 violation of this permit.

(8) An inspection shall be performed each calendar quarter of all bags controlling the No. 4 BOF hot metal transfer and desulfurization baghouses (26 and 27) and No. 4

BOF shop secondary ventilation system baghouse (37) process operations. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(9) Based on Agreed Order, Cause No. A-4218, the Permittee shall update and keep on file a revised work instruction for incoming scrap metal quality control. The quality control work instruction shall provide reasonable assurance that portions of the scrap metal charged in the BOF are free from non-metallic contamination, residual petroleum products, and fluids that could cause opacity excursions.

(10) No additional monitoring is required for the remaining control devices because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(g) No. 1 Lime Plant

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the No.1 and No. 2 Kiln baghouses stacks (45) and (49) exhausts 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the pressure drop across the baghouse used in conjunction with the No.1 and No. 2 Kiln baghouse (43) and Storage Silo baghouse (47) at least once per shift when the No.1 and No. 2 Kiln and Storage Silo in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 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 reading that is outside the 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 violation of this permit.

(4) An inspection shall be performed each calendar quarter of all bags controlling the No.1 and No. 2 Kiln stack (45) and (49) and Storage Silo baghouse (47). Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(5) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with condition D.7.4, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:

(A) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.

(B) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.

(h) No.1 Electric Arc Furnace

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted to the IDEM.

(2) Visible emission notations of the electric furnace baghouse (141) exhausts 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. 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. 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. 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. 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 violation of this permit.

(3) The Permittee shall record the pressure drop across the baghouse used in conjunction with the electric arc furnace (141) and ladle metallurgical station processes (143) at least once per shift when the electric arc furnace and ladle metallurgical station processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 4.0-10.5 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 reading that is outside the 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 violation of this permit.

(4) An inspection shall be performed each calendar quarter of all bags controlling the electric arc furnace and ladle metallurgical station operations when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(5) No additional monitoring is required for the remaining control devices because the after control emissions from these emission points is very small and the operation

of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(k) No. 3 Cold Strip Mill

(1) The Permittee of a new, reconstructed, or existing steel pickling facility shall:

(A) 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 (2) above 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 IDEM, OAQ.

(3) Monthly inspections shall be performed on the mist eliminator used in conjunction with the EGL Degreasing Section and EGL Pre-cleaning Section to insure proper operation. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change occurs. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C-Compliance Response Plan-Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.

(l) Coated Products

No additional monitoring is required for the remaining control devices because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(m) Utilities

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP. CCP were submitted and subsequently approved by the IDEM.

(2) Visible emission notations of the No.2 AC Station Boilers 211-213 and No. 5 Boilerhouse 501-503 stack exhausts 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. 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. In the case ofbatch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. 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. 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 violation of this permit.

(3) Pursuant to 326 IAC 7-4-1.1(d), and in order to comply with condition D.13.2, the Permittee shall comply with the sampling and analysis protocol, submitted to IDEM on December 27, 1988. The protocol shall contain at minimum, the following:

(A) A description of planned procedures for sampling of sulfur-bearing fuels and materials for analysis of sulfur content, and for any planned direct measurement of sulfur dioxide emissions vented to the atmosphere.

(B) The protocol shall specify the frequency of sampling, analysis and/or measurement for each fuel and materials for each facility. The protocol submitted on December 27, 1988 by the Permittee is hereby incorporated into this operating permit.

(n) Shops

(1) Pursuant to 326 IAC 6-1-10.1(l), the Permittee shall submit to IDEM OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). Pursuant to 326 IAC 6-1-10.1(l) through (v), the Permittee shall perform the inspections, monitoring and recordkeeping requirements as specified or in accordance to the Permittee's CCP.

(2) Visible emission notations of the Pugh Ladle Car Lancing and Iron Pigging (43) stack exhausts 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. 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. 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. 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. 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 Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(3) The Permittee shall record the pressure drop across the baghouse used in conjunction with the Pugh Ladle Car Lancing and Iron Pigging (43) stack is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 5.0 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 reading that is outside the 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 violation of this permit.

(4) An inspection shall be performed each calendar quarter of all bags controlling the Pugh Ladle Car Lancing and Iron Pigging (43) when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

(5) No additional monitoring is required for the remaining control devices because the after control emissions from these emission points is very small and the operation of the control device is otherwise covered under the Continuous Compliance Plan required for this Source.

(o) Storage Vessels

The Permittee shall inspect tanks T-1, T-4 and T-5 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.

Conclusion

The operation of this integrated steel mill operation shall be subject to the conditions of the attached proposed Part 70 Permit No. T089-6577-00316.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality

Appendix A to the Technical Support Document (TSD): Technical Support Document (TSD) for the NO_X Budget Permit

Source Background and Description

Source Name: Ispat Inland, Inc.
Source Location: 3210 Watling Street, East Chicago, Indiana 46312
Operated By: Ispat Inland, Inc.
Owned By: Ispat Inland, Inc.
ORIS Code: 10474
Operation Permit No.: T089-6577-00316
Permit Reviewer for NO_X Budget Permit: Rebecca Mason

NO_X Budget Permit Application and Rule Applicability

A complete NO_X Budget Permit Application for this NO_X budget source was received on August 18, 2003. The Office of Air Quality (OAQ) has reviewed a NO_X budget permit application from Ispat Inland, Inc. 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 that are a portion of the utilities at the source are NO_X Budget Units:

(a) No. 2 AC Station including:

(1) Three (3) Boilers identified as 211-213, fired by natural gas and blast furnace gas from No. 5 and No. 6 blast furnaces:

(A) Boiler 211 with a maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 125 and 126.

(B) Boiler 212 with a maximum heat input of 468 MMBtu/hr, installed in 1948 exhausting through stacks 127 and 128.

(C Boiler 213 with a maximum heat input of 468 MMBtu/hr, installed in 1949 exhausting through stacks 129 and 130.

(2) Two (2) Blast Furnace Gas Flares to burn excess blast furnace gas from No. 5 and No.6 Blast Furnaces exhausting through stack 131, nine (9) turbo blowers and five (5) electricity generators.

(b) No. 5 Boilerhouse installed in 1976, including Boilers 501-503 fired by blast furnace gas from No. 7 blast furnace and mixed gas, each with a maximum heat input of 520 MMBtu/hr exhausting through stack 134. The boilers produce steam, which is sent through three (3) turbo blowers and a cooling tower for plant use and for the production of blast air and electrical power generation.

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 general 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 the department 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.

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 Rebecca Mason at the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana 46206-6015 or by telephone at (317) 233-9664 or toll free at 1-800-451-6027 extension 3-9664.

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
P.O. Box 6015
Indianapolis, Indiana 46206-6015
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