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: April 19, 2007

RE: Weil McClain / 091-20949-00020

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 13-17-3-4 and 326 IAC 2, this permit modification 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 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. 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:

(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.

Recycled Paper An Equal Opportunity Employer *Please Recycle*

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit 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
FNTV-PMOD.doc 03/23/06

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 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Mr. Gary Connor
Weil-McLain
500 Blaine Street
Michigan City, IN 46360-2388

April 19, 2007

Re: 091-20949-00020
First Significant Permit Modification to
Part 70 No.: T 091-6295-00020

Dear Mr. Connor:

Weil-McLain was issued a permit on December 30, 2002 for a gray iron foundry producing gray iron boilers. A letter requesting changes to this permit was received on March 14, 2005. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of updating equipment descriptions, updating emission calculations, incorporating federally enforceable limits to limit single HAP emissions to less than 10 tons per year and to limit any combination of HAP emissions to less than 25 tons per year, and including additional insignificant activities. The modification also includes the incorporation of changes to the permit pursuant to a Joint Agreement Regarding Stay (Agreement) that Weil-McLain and IDEM entered into on August 14, 2003.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Trish Earls, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (973) 575-2555, ext. 3219, or dial (800) 451-6027, and ask for extension 3-6878.

Sincerely,

Original signed by
Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments
TE/EVP
cc: File - LaPorte County
U.S. EPA, Region V
LaPorte County Health Department
IDEM Northwest Regional Office
Air Compliance Section Inspector - Dick Sekula
Compliance Data Section
Administrative and Development
Technical Support and Modeling

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 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Weil-McLain
500 Blaine Street
Michigan City, Indiana 46360

(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.

Operation Permit No.: 091-6295-00020	
Original signed by: Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: December 30, 2002 Expiration Date: December 30, 2007

First Significant Permit Modification No.: 091-20949-00020	
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: April 19, 2007 Expiration Date: December 30, 2007

TABLE OF CONTENTS

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

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

C SOURCE OPERATION CONDITIONS 23

Emission Limitations and Standards [326 IAC 2-7-5(1)]
- C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]
- C.2 Opacity [326 IAC 5-1]
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
- C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

Testing Requirements [326 IAC 2-7-6(1)]
- C.7 Performance Testing [326 IAC 3-6]

Compliance Requirements [326 IAC 2-1.1-11]
C.8 Compliance Requirements [326 IAC 2-1.1-11]

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)]
C.10 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]
C.11 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]
C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]
C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]
C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]
C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

Stratospheric Ozone Protection
C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1 FACILITY OPERATION CONDITIONS - Furnaces, Scrap Handling, Charge Handling 32

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.1.1 PSD Minor Limit [326 IAC 2-2]
D.1.2 Particulate [326 IAC 6-3-2]
D.1.3 HAP Minor Limit
D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.1.6 Particulate Matter (PM)
D.1.7 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.1.8 Visible Emissions Notations
D.1.9 Parametric Monitoring
D.1.10 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.1.11 Record Keeping Requirements
D.1.12 Reporting Requirements

D.2 FACILITY OPERATION CONDITIONS - A-Line Molding Operation 38

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.2.1 PSD Minor Limit [326 IAC 2-2]
D.2.2 Particulate [326 IAC 6-3-2]
D.2.3 Metallic HAP Minor Limit
D.2.4 Organic HAP Minor Limit
D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.2.7 Particulate Matter (PM)
D.2.8 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.2.9 Visible Emissions Notations
D.2.10 Parametric Monitoring
D.2.11 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.2.12 Record Keeping Requirements
D.2.13 Reporting Requirements

D.3 FACILITY OPERATION CONDITIONS - B-Line Molding Operation 46
Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.3.1 PSD Minor Limit [326 IAC 2-2]
D.3.2 Particulate [326 IAC 6-3-2]
D.3.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]
D.3.4 Metallic HAP Minor Limit
D.3.5 Organic HAP Minor Limit
D.3.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.3.7 Particulate Matter (PM)
D.3.8 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.3.9 Visible Emissions Notations
D.3.10 Parametric Monitoring
D.3.11 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.3.12 Record Keeping Requirements
D.3.13 Reporting Requirements

D.4 FACILITY OPERATION CONDITIONS - Floor Molding Operation 54

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.4.1 PSD Minor Limit [326 IAC 2-2]
D.4.2 Particulate [326 IAC 6-3-2]
D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]
D.4.4 Metallic HAP Minor Limit
D.4.5 Organic HAP Minor Limit
D.4.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.4.7 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.4.8 Particulate Matter (PM)
D.4.9 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.4.10 Visible Emissions Notations
D.4.11 Parametric Monitoring
D.4.12 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.4.13 Record Keeping Requirements
D.4.14 Reporting Requirements

D.5 FACILITY CONDITIONS - Chill Iron Shot Blast, Paint Spray Booth 65

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.5.1 Particulate [326 IAC 6-3-2]
D.5.2 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1] [326 IAC 7-2-1]
D.5.3 HAP Minor Limit
D.5.4 Particulate [326 IAC 6-3-2(d)]
D.5.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.5.6 Particulate Matter (PM)
D.5.7 Sulfur Dioxide Emissions and Sulfur Content
D.5.8 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.5.9 Visible Emissions Notations
D.5.10 Monitoring
D.5.11 Parametric Monitoring
D.5.12 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.5.13 Record Keeping Requirements
D.5.14 Reporting Requirements

D.6 FACILITY CONDITIONS - Indoor Scrap Handling Operation and Raw Sand Storage Silo 70

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.6.1 PSD Minor Limit [326 IAC 2-2]
D.6.2 Particulate [326 IAC 6-3-2]
D.6.3 HAP Minor Limit
D.6.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.6.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.6.6 Particulate Matter (PM)
D.6.7 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.6.8 Visible Emissions Notations
D.6.9 Parametric Monitoring
D.6.10 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.6.11 Record Keeping Requirements
D.6.12 Reporting Requirements

D.7 FACILITY OPERATION CONDITIONS - Core Making Operations and Dip Tank 75

Emission Limitations and Standards [326 IAC 2-7-5(1)]
D.7.1 PSD Minor Limit [326 IAC 2-2]
D.7.2 Particulate [326 IAC 6-3-2]
D.7.3 HAP Minor Limit

D.7.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements
D.7.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
D.7.6 Particulate Matter (PM)
D.7.7 HAP Emissions

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
D.7.8 Visible Emissions Notations
D.7.9 Parametric Monitoring
D.7.10 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
D.7.11 Record Keeping Requirements
D.7.12 Reporting Requirements

Certification 82
Emergency Occurrence Report 83
Quarterly Reports 85-117
Quarterly Deviation and Compliance Monitoring Report 118

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 through A.3 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 gray iron foundry producing gray iron boilers.

Source Address:	500 Blaine Street, Michigan City, IN 46360
Mailing Address:	500 Blaine Street, Michigan City, IN 46360-2388
General Source Phone Number:	219-879-6561
SIC Code:	3321
County Location:	LaPorte
Source Location Status:	Nonattainment for ozone under the 8-hour standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

This stationary source consists of the following emission units and pollution control devices:

(a) one (1) natural gas fired preheater, installed in 1991, rated at 12.976 million (MM) British thermal units (Btu) per hour, with a maximum metal throughput of 20 tons per hour, controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4);

(b) four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), each installed in 1991, each capable of melting a maximum of 5 tons per hour of metal, with emissions from metal charging for each furnace controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4);

(c) one (1) charge handling system, installed prior to 1977, processing a maximum of 20 tons of metal per hour exhausting inside the building;

(d) one (1) electric holding furnace, installed in 1971, with a maximum molten metal storage capacity of 20 tons; the transfer of metal from the carrier ladle to the holding furnace exhausts through one (1) stack (ID No. 36-E-24);

(e) one (1) mold making operation (ID No. A-Line Molding) consisting of the following:

(1) one (1) 250 ton capacity holding silo (ID No. A-Line Holding Silo), installed in 1984, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8), and one (1) 50 ton capacity bond silo, installed in 1984, controlled by one (1) bin vent;

(2) one (1) green sand muller (ID No. A-Line Muller), installed in 1984, with a maximum green mold sand throughput of 200 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

(3) one (1) metal pouring operation (ID No. A-Line Pouring), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through stack 36-E-12;

(4) one (1) metal cooling operation (ID No. A-Line Cooling), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through exhaust fans 32-E-2 and 32-E-1; and

(5) one (1) mold and casting shakeout operation (ID No. A-Line Shakeout), installed in 1964, with a maximum metal casting throughput of 24 tons per hour, and a maximum throughput of 10 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

(f) one (1) mold making operation (ID No. B-Line Molding) consisting of the following:

(1) one (1) 75 ton capacity holding silo (ID No. B-Line Holding Silo), installed in 1987, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7), and one (1) 50 ton capacity bond silo, installed in 1987, controlled by one (1) bin vent;

(2) one (1) green sand muller (ID No. B-Line Muller), installed in 1987, with a maximum green mold sand throughput of 100 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(3) one (1) metal pouring operation (ID No. B-Line Pouring), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting through stack 36-E-5;

(4) one (1) metal cooling operation (ID No. B-Line Cooling), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting partially through stack 36-E-6; and

(5) one (1) mold shakeout operation (ID No. B-Line Shakeout), installed in 1987, with a maximum metal casting throughput of 9 tons per hour, and a maximum throughput of 4 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(g) one (1) mold making operation (ID No. Floor Molding) consisting of the following:

(1) one (1) High Speed Continuous Sand Mixer (ID Mixer) and associated High Speed Continuous Sand Mixer hopper, each installed in 2001, with a maximum mold sand throughput of 42 tons per hour, with the hopper controlled by one (1) baghouse (ID 30-DC-6), exhausting through one (1) stack (ID No. 30-DC-6).

(2) one (1) metal pouring operation (ID No. Floor Pouring), installed in 1922, with a maximum throughput of 6 tons per hour of molten metal, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour, exhausting inside the building;

(3) one (1) metal cooling operation (ID No. Floor Cooling), installed in 1922, with a maximum throughput of 6 tons per hour of molten metal, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour, exhausting inside the building;

(4) one (1) mold shakeout operation (ID No. Floor Shakeout), installed in 1922, with a maximum metal casting throughput of 6 tons per hour, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour. The Floor Shakeout is uncontrolled and exhausts inside the building;

(h) one (1) casting knockout station (ID Floor Knockout Station), installed in 1965, with a maximum throughput of 15 tons of iron castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building.

(i) one (1) Wheelabrator shot blast machine (ID No. Shot Blast), installed in 1990, with a maximum throughput of 31 tons of iron castings per hour, controlled by one (1) baghouse (ID No. 36-DC-8), exhausting inside the building;

(j) one (1) Chill Iron shot blast machine (ID No. Chill Iron Shot Blast), installed in 1972, with a maximum throughput of 3,500 pounds of castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building;

(k) one (1) paint spray booth (ID No. Spray Painting), installed in 1982, using a high volume low pressure (HVLP) coating application system, using a maximum of 9.8 pounds of coating per hour to coat metal base boards and a maximum of 10 gallons per year of paint thinner, with dry filters for particulate matter overspray control, exhausting through one (1) stack (ID No. 5-E-1);

(l) One (1) indoor scrap handling operation consisting of the following:

(1) one (1) metal scrap crusher, with a maximum scrap metal throughput of 15 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);

(2) one (1) rotary reclaimer, with maximum scrap metal and sand throughputs of 15 and 10 tons per hour, respectively, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);

(3) one (1) sand and metal conveyor, with maximum scrap metal and sand throughputs of 15 and 10 tons per hour, respectively, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5); and

(4) one (1) enclosed conveyor system transporting spent sand to spent sand storage silo, with a maximum sand storage capacity of 100 tons, and a maximum sand throughput of 10 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5).

(m) one (1) pneumatically conveyed raw sand storage silo for the High Speed Continuous Sand Mixer, with a maximum sand storage capacity of 75 tons, and a maximum sand throughput of 10 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);

(n) two (2) 200 ton capacity core and mold sand silos (ID Nos. Silo #1 and Silo #2), both installed in 1950, each with a maximum sand throughput of 16.8 tons per hour, both controlled by one (1) baghouse (ID 37-1-DC-3), exhausting through one (1) stack (ID No. 37-1-DC-3);

(o) one (1) Cold Box core making operation consisting of the following:

(1) one (1) Cold Box sand mixer, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(2) one (1) Cold Box core machine, installed in 1975, with a maximum throughput of 5.8 tons per hour of sand, with VOC and HAP emissions controlled by one (1) natural gas fired afterburner (ID No. Afterburner J), rated at 1.4 MMBtu per hour, exhausting through one (1) stack (ID No. 37-1-E-2); and

(3) one (1) 10 ton capacity Cold Box line sand hopper and elevator, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(p) one (1) No Bake core making operation consisting of the following:

(1) one (1) enclosed No Bake sand mixer, installed in 1979, consisting of the No Bake Large Core Mixer and the No Bake Small Core Mixer, with a maximum sand throughput of 6.0 tons per hour;

(2) one (1) No Bake core machine, installed in 1979, with a maximum throughput of 6.0 tons per hour of sand, exhausting inside the building; and

(3) one (1) 10 ton capacity No Bake line sand hopper, installed in 1979, with a maximum sand throughput of 6.0 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(q) one (1) Warm Box core making operation consisting of the following:

(1) two (2) Warm Box mixers (ID Nos. Mixer 1 and Mixer 2), installed in 1971 and 1981, respectively, each with maximum throughputs of 3.5 and 1.5 tons of sand per hour, respectively, both controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(2) three (3) Warm Box core machines (ID Warm Box Core Machines #1, #2, and #3), installed in 1971, 1976, and 1981, respectively, each with a maximum throughput of 1.73 tons per hour of sand, all exhausting inside the building; and

(3) one (1) 10 ton capacity Warm Box line sand hopper, installed in 1971, with a maximum sand throughput of 5.0 tons of sand per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(r) one (1) enclosed 10 ton capacity core and mold sand hopper, elevator, and conveyor, installed in 1975, with a maximum sand throughput of 16.8 tons per hour; and

(s) one (1) dip tank (ID No. Dip Tank Painting), installed in 1970, using a maximum of 5.8 pounds of coating per hour to coat metal parts, exhausting through one (1) stack (ID No. 3-E-1).

A.3 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 also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:

(1) one (1) natural gas fired thermal oxidizer (ID No. Afterburner J), rated at 1.4 MMBtu per hour, controlling VOC and HAP emissions from the Cold Box core machine, exhausting through one (1) stack (ID No. 37-1-E-2);

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

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

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

(e) 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 4,000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations. [326 IAC 6-3]

(f) Other categories with emissions below insignificant thresholds:

(1) one (1) machining operation (ID No. Machining), modified in 1987, consisting of twenty eight (28) machines performing tapping, drilling, and reaming on the metal castings, with a maximum metal casting throughput of 20 tons per hour. Nine (9) machines are controlled by one (1) baghouse (ID No. 8-DC-2), two (2) machines are controlled by one (1) baghouse (ID No. 8-DC-1), and seventeen (17) machines are controlled by coolant. Potential PM and PM-10 emissions before control are less than twenty-five (25) pounds per day.

(2) the following petroleum aboveground storage tanks (AST):

(A) one (1) 2,000 gallon diesel fuel AST;
(B) two (2) 1,000 gallon propane ASTs;
(C) one (1) 275 gallon Dextron EF AST;
(D) one (1) 275 gallon anti-freeze AST;
(E) one (1) 275 gallon motor oil AST;
(F) one (1) 275 gallon hydraulic oil AST;
(G) two (2) 290 gallon Super Slik totes;
(H) five (5) 300 gallon fuel oil ASTs;
(I) one (1) 120 gallon propane AST;
(J) one (1) 275 gallon hydraulic oil AST;
(K) one (1) 275 gallon fuel oil AST;
(L) one (1) 500 gallon propane AST;
(M) one (1) 2,000 gallon fuel oil AST; and
(N) one (1) 800 gallon foam AST.

A.4 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)][IC 13-15-3-6(a)]

(a) This permit, T091-6295-00020, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

(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.

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

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

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

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

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

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

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

(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 the "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) The "responsible official" is defined at 326 IAC 2-7-1(34).

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 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) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (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, 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 to091-6295-00020 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 permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

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

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

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

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

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

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating 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.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, 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.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72]

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission 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.21 Source Modification Requirement [326 IAC 2-7-10.5][326 IAC 2-2][326 IAC 2-3]

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

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, 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.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

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

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 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 forty percent (40%) 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.3 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.4 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.5 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). 326 IAC 6-4-2(4) is 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 shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

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

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

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. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

C.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 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.11 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.12 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.13 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.14 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.15 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.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

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

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

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

The statement must be submitted to:

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

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

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

C.17 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 "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions 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 the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or 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.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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

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

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

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

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

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

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

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

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

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

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

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

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

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

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) one (1) natural gas fired preheater, installed in 1991, rated at 12.976 million (MM) British thermal units (Btu) per hour, with a maximum metal throughput of 20 tons per hour, controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4);
(b) four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), each installed in 1991, each capable of melting a maximum of 5 tons per hour of metal, with emissions from metal charging for each furnace controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4);
(c) one (1) charge handling system, installed prior to 1977, processing a maximum of 20 tons of metal per hour exhausting inside the building;
(d) one (1) electric holding furnace, installed in 1971, with a maximum molten metal storage capacity of 20 tons; the transfer of metal from the carrier ladle to the holding furnace exhausts through one (1) stack (ID No. 36-E-24);

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

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

D.1.1 PSD Minor Limit [326 IAC 2-2]

(a) Total PM and PM10 emissions from melting and charging for the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), installed in 1991, shall not exceed 0.57 and 0.33 pound per ton of metal throughput, respectively.

(b) The throughput of metal to each of the following facilities shall not exceed 50,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month:

(1) all four (4) electric induction furnaces; and
(2) the electric holding furnace

Compliance with these emission limits and the metal throughput limit combined with potential emissions from the preheater, also installed in 1991, and the emissions increase from the charge handling operation due to the modification in 1991 limits PM and PM10 emissions from the modification in 1991 to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable. Any emissions from the electric holding furnace are accounted for in the emissions from melting in the electric induction furnaces.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
Electric Induction Furnace #1	5.00	12.05
Electric Induction Furnace #2	5.00	12.05
Electric Induction Furnace #3	5.00	12.05
Electric Induction Furnace #4	5.00	12.05
Charge Handling	20.00	30.51

D.1.3 HAP Minor Limit

(a) Emissions of lead from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.32 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 0.66 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emission of any combination of HAPs from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.43 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the charge handling system shall not exceed 0.10 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the charge handling system shall not exceed 0.47 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emissions of any combination of HAPs from the charge handling system shall not exceed 0.57 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
Four (4) Electric Induction Furnaces	Lead	2.32
	Manganese	0.66
	Total Metal HAPs	2.43
Charge Handling	Lead	0.10
	Manganese	0.47
	Total Metal HAPs	0.57

Compliance with the emission limits in paragraphs (a), (b), (d), and (e) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (c) and (f) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

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

(a) During the period between 30 and 36 months after issuance of this permit, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM-10 testing on one (1) of the four (4) identical electric induction furnaces and the dust collector (ID No. 39-DC-4) controlling emissions from the metal charging for each furnace utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.1.3, the Permittee shall perform lead and manganese testing on one (1) of the four (4) electric induction furnaces utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.6 Particulate Matter (PM) and HAPs

(a) In order to comply with conditions D.1.1 and D.1.2 and to comply with the metallic HAP emission limits in condition D.1.3, the dust collector for PM, PM10 and metallic HAP control shall be in operation and control emissions from the metal charging for each electric induction furnace at all times when the electric induction furnaces are in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.1.7 HAP Emissions

Compliance with the HAP limits in condition D.1.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FPb} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPb} = 0.0545 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(b) Lead Emissions from the charge handling operation (tons/yr) = EF_{CHPb} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHPb} = 0.00231 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(c) Manganese Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FMn} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FMn} = 0.02108 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(d) Manganese Emissions from the charge handling operation (tons/yr) = EF_{CHMn} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHMn} = 0.0186 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(e) Total Metal HAP Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FTM} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FTM} = 0.07764 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(f) Total Metal HAP Emissions from the charge handling operation (tons/yr) = EF_{CHTM} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHTM} = 0.02273 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(g) Upon IDEM approval of lead and manganese compliance stack test results on one (1) of the four (4) electric induction furnaces, the following shall apply:

(1) The lead and manganese emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{FPb} and EF_{FMn}.
(2) The total metal HAP emission factor in pound per ton that shall be used for the variable EF_{FTM} shall be the sum of the lead emission factor obtained from the stack test, the manganese emission factor obtained from the stack test and the remaining non-lead and non-manganese metal HAP emission factors used to calculate emissions.

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

D.1.8 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the four (4) electric induction furnaces and the charge handling system (ID No. 39-DC-4) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.9 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collector used in conjunction with the charge handling system, at least once per day when the charge handling system is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 7.0 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 from 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.1.10 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.11 Record Keeping Requirements

(a) To document compliance with Condition D.1.1(b), the Permittee shall maintain records of the metal throughput to the four (4) electric induction furnaces and the electric holding furnace for each month;

(b) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the four (4) electric induction furnaces and charge handling system stack exhaust (ID No. 39-DC-4) once per day.

(c) To document compliance with Condition D.1.9, the Permittee shall maintain records of the pressure drop once per day;

(d) To document compliance with condition D.1.3, the Permittee shall maintain records of the following:

(1) HAP stack test results for one (1) of the four (4) electric induction furnaces;
(2) HAP emission calculations performed monthly using the equations in condition D.1.7; and
(3) HAP emissions in tons per year.

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

D.1.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(b) and Condition D.1.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.1.3, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(e) one (1) mold making operation (ID No. A-Line Molding) consisting of the following:

(1) one (1) 250 ton capacity holding silo (ID No. A-Line Holding Silo), installed in 1984, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8), and one (1) 50 ton capacity bond silo, installed in 1984, controlled by one (1) bin vent;

(2) one (1) green sand muller (ID No. A-Line Muller), installed in 1984, with a maximum green mold sand throughput of 200 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

(3) one (1) metal pouring operation (ID No. A-Line Pouring), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through stack 36-E-12;

(4) one (1) metal cooling operation (ID No. A-Line Cooling), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through exhaust fans 32-E-2 and 32-E-1; and

(5) one (1) mold and casting shakeout operation (ID No. A-Line Shakeout), installed in 1964, with a maximum metal casting throughput of 24 tons per hour, and a maximum throughput of 10 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

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

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

D.2.1 PSD Minor Limit [326 IAC 2-2]

(a) Total PM emissions from the A-Line Muller and A-Line Holding Silo, both installed in 1984, shall not exceed 0.107 pound per ton of sand throughput.

(b) The throughput of sand to the A-Line Muller and A-Line Holding Silo shall not exceed 464,200 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this emission limit and the sand throughput limit, limits PM emissions to less than 25 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.2.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formulas:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
A-Line Pouring	234.00*	60.23
A-Line Cooling	234.00*	60.23
A-Line Shakeout	234.00*	60.23
A-Line Muller & Sand Handling (including A-Line Holding Silo)	200.00	58.51

* Includes 24 tons per hour metal, 200 tons per hour mold sand, and 10 tons per hour core throughput.

(b) For purposes of determining compliance with the particulate emission limits pursuant to 326 IAC 6-3-2 for the A-Line Shakeout and the A-Line Muller & Sand Handling (including the A-Line Holding Silo), all exhausting through baghouse 36-1-DC-8, the allowable particulate emission rate from baghouse 36-1-DC-8 shall be limited to 118.74 pounds per hour.

D.2.3 Metallic HAP Minor Limit

(a) Total emissions of lead from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.04 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.71 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
A-Line Pouring, Cooling and Shakeout	Lead	1.10
	Manganese	3.04
	Total Metal HAPs	3.71

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.2.4 Organic HAP Minor Limit

(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
A-Line and B-Line Pouring, Cooling and Shakeout	Phenol	1.85
	Benzene	2.41
	Total Organic HAPs	2.41

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other phenol and benzene limits included in this permit limit source-wide phenol emissions and source-wide benzene emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 30 and 36 months after issuance of this permit, in order to demonstrate compliance with Condition D.2.2, the Permittee shall perform PM testing on the A-Line Pouring operation, the baghouse controlling the A-Line Shakeout operation, the A-Line Holding Silo, and the A-Line Muller, identified as 36-1-DC-8, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.2.4, the Permittee shall perform total organic HAP testing on the A-Line Pouring, A-Line Cooling, and A-Line Shakeout operations and total metal HAP testing on the A-Line Shakeout operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.7 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouse (ID 36-1-DC-8) for PM, PM10, and metallic HAP control shall be in operation and control emissions from the A-Line Shakeout operation and the A-Line Holding Silo and Muller at all times that the A-Line Shakeout operation and the A-Line Holding Silo and Muller are in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.2.8 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.2.3 shall be demonstrated using the following equations:

(1) Lead Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APPb} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACPb} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASPb} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{APPb} = 0.00385 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASPb} = 0.00134 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APMn} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACMn} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASMn} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{APMn} = 0.031 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASMn} = 0.0108 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APTM} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACTM} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASTM} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{APTM} = 0.03788 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASTM} = 0.0132 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.2.4 shall be demonstrated using the following equations:

(1) Phenol Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APh} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.131 ton per year phenol from the green sand molding operation for molds used in the A-Line

Where:
EF_{APh} = 0.0039 pound phenol per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{AB} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.611 ton per year benzene from the green sand molding operation for molds used in the A-Line

Where:
EF_{AB} = 0.00535 pound benzene per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{ATO} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 1.076 tons per year from the green sand molding operation for molds used in the A-Line

Where:
EF_{ATO} = 0.01236 pound combined organic HAP per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of total metallic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations, the lead, manganese, and total metallic HAP emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{APPb}, EF_{ACPb}, EF_{ASPb}, EF_{APMn}, EF_{ACMn}, EF_{ASMn}, EF_{APTM}, EF_{ACTM}, and EF_{ASTM}.

(d) Upon IDEM approval of total organic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations, the phenol, benzene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{APh}, EF_{AB} and EF_{ATO}.

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

D.2.9 Visible Emissions Notations

(a) Visible emission notations of the A-Line pouring and cooling operations and the stack exhaust for the baghouse (ID 36-1-DC-8) controlling the A-Line Holding Silo and Muller, and the A-Line Shakeout operation shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.10 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the A-Line Shakeout operation and the A-Line Holding Silo and Muller, at least once per day when the A-Line Shakeout operation and the A-Line Holding Silo and Muller 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 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 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 from 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.2.11 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.2.12 Record Keeping Requirements

(a) To document compliance with Condition D.2.1(b), the Permittee shall maintain records of the sand throughput to the A-Line Muller and A-Line Holding Silo for each month;

(b) To document compliance with Condition D.2.9, the Permittee shall maintain records of visible emission notations of the A-Line pouring and cooling operations and the stack exhaust for the baghouse controlling the A-Line Holding Silo and Muller, and the A-Line Shakeout operation once per day.

(c) To document compliance with Condition D.2.10, the Permittee shall maintain records of the pressure drop once per day;

(d) To document compliance with Condition D.2.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the A-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed monthly using the equations in condition D.2.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.2.4, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the A-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed monthly using the equations in condition D.2.8(b); and
(4) Organic HAP emissions in tons per year.

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

D.2.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1(b), D.2.3, and D.2.4, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.2.3 and D.2.4, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(f) one (1) mold making operation (ID No. B-Line Molding) consisting of the following:

(1) one (1) 75 ton capacity holding silo (ID No. B-Line Holding Silo), installed in 1987, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7), and one (1) 50 ton capacity bond silo, installed in 1987, controlled by one (1) bin vent;

(2) one (1) green sand muller (ID No. B-Line Muller), installed in 1987, with a maximum green mold sand throughput of 100 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(3) one (1) metal pouring operation (ID No. B-Line Pouring), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting through stack 36-E-5;

(4) one (1) metal cooling operation (ID No. B-Line Cooling), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting partially through stack 36-E-6; and

(5) one (1) mold shakeout operation (ID No. B-Line Shakeout), installed in 1987, with a maximum metal casting throughput of 9 tons per hour, and a maximum throughput of 4 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

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

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

D.3.1 PSD Minor Limit [326 IAC 2-2]

(a) The throughput of metal to each of the B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations, installed in a twelve month period from 1986 to 1987, shall not exceed 31,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The throughput of sand to the B-Line Muller and the B-Line Holding Silo shall not exceed 130,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(c) Total PM emissions from the baghouse (36-1-DC-7) controlling the B-Line Shakeout operation, the B-Line Muller, and the B-Line Holding Silo shall not exceed 0.37 pound per ton of metal and sand throughput.

(d) Total CO emissions from the B-Line Pouring, B-Line Cooling and B-Line Shakeout operations shall not exceed 6.0 pounds per ton of metal throughput.

Compliance with the metal throughput limit, the sand throughput limit, and the PM emission limit, when combined with the emission reductions from the removal of an existing floor molding operation in 1986, limits PM emissions to less than 25 tons per year. Compliance with the metal throughput limit and the CO emission limit shall limit CO emissions from the B-Line Pouring, Cooling and Shakeout operations installed in the twelve month period from 1986 to 1987 to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.3.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formulas:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

or
Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
B-Line Pouring	113.00*	52.51
B-Line Cooling	113.00*	52.51
B-Line Shakeout	113.00*	52.51
B-Line Muller & Sand Handling (including B-Line Holding Silo)	100.00	51.28

* Includes 9 tons per hour metal, 100 tons per hour mold sand, and 4 tons per hour core throughput.

(b) For purposes of demonstrating compliance with the particulate emission limits pursuant to 326 IAC 6-3-2 for the B-Line Shakeout and the B-Line Muller & Sand Handling (including the B-Line Holding Silo), and the Cold Box sand mixer, the Cold Box sand hopper and elevator, the No Bake sand hopper, the Warm Box mixers, and the Warm Box sand hopper listed in section D.7, all of which are controlled by the baghouse identified as 36-1-DC-7, the allowable particulate emission rate from the baghouse, identified as 36-1-DC-7, shall be limited to 142.77 pounds per hour.

D.3.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

(a) VOC emissions from the B-Line Pouring operation shall not exceed 0.14 pounds of VOC per ton of metal charged;

(b) VOC emissions from the B-Line Shakeout operation shall not exceed 1.2 pounds of VOC per ton of metal charged;

(c) The throughput of metal to each of the B-Line Pouring and B-Line Shakeout operations shall not exceed 31,500 tons per twelve (12) consecutive month period.

Compliance with the metal throughput limit and the VOC emission limits shall limit VOC emissions to less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

D.3.4 Metallic HAP Minor Limit

(a) Total emissions of lead from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 0.65 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.67 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
B-Line Pouring, Cooling and Shakeout	Lead	0.65
	Manganese	1.36
	Total Metal HAPs	1.67

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.3.5 Organic HAP Minor Limit

(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (lb/lb)
A-Line and B-Line Pouring, Cooling and Shakeout	Phenol	1.85
	Benzene	2.41
	Total Organic HAPs	2.41

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other phenol and benzene limits included in this permit limit source-wide phenol emissions and source-wide benzene emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.3.6 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 these facilities and any control devices.

Compliance Determination Requirements

D.3.7 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse for PM control shall be in operation and control emissions from the B-Line Shakeout operation and the B-Line Holding Silo and Muller at all times that the B-Line Shakeout operation and the B-Line Holding Silo and Muller are in operation.

(b) In order to comply with Condition D.3.4, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the B-Line Shakeout operation at all times that the B-Line Shakeout operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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.3.8 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.3.4 shall be demonstrated using the following equations:

(1) Lead Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPPb} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCPb} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSPb} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{BPPb} = 0.01617 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)

EF_{BCPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)

EF_{BSPb} = 0.00256 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPMn} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCMn} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSMn} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{BPMn} = 0.1302 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{BCMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{BSMn} = 0.0206 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPTM} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCTM} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSTM} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{BPTM} = 0.1591 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{BCTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{BSTM} = 0.0252 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.3.5 shall be demonstrated using the following equations:

(1) Phenol Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPh} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.043 ton per year from the green sand molding operation for molds used in the B-Line

Where:
EF_{BPh} = 0.0039 pound phenol per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BB} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.199 ton per year from the green sand molding operation for molds used in the B-Line

Where:
EF_{BB} = 0.00535 pound benzene per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BTO} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.35 ton per year from the green sand molding operation for molds used in the B-Line

Where:
EF_{BTO} = 0.01236 pound combined organic HAP per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of total metallic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations listed in section D.2, the lead, manganese, and total metallic HAP emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{BPPb}, EF_{BCPb}, EF_{BSPb}, EF_{BPMn}, EF_{BCMn}, EF_{BSMn}, EF_{BPTM}, EF_{BCTM}, and EF_{BSTM}.

(d) Upon IDEM approval of total organic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations listed in section D.2, the phenol, benzene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{BPh}, EF_{BB} and EF_{BTO}.

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

D.3.9 Visible Emissions Notations

(a) Visible emission notations of the B-Line pouring operation and the stack exhaust for the baghouse controlling the B-Line Holding Silo and Muller, and the B-Line Shakeout operation shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.3.10 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the B-Line Shakeout operation and the B-Line Holding Silo and Muller, at least once per day when the B-Line Shakeout operation and the B-Line Holding Silo and Muller 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 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 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 from 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

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.3.12 Record Keeping Requirements

(a) To document compliance with Condition D.3.1(a) and (b) and D.3.3(c), the Permittee shall maintain records of the metal throughput to each of the B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations and the sand throughput to the B-Line Muller for each month;

(b) To document compliance with Condition D.3.9, the Permittee shall maintain records of visible emission notations of the B-Line pouring operation and the stack exhaust for the baghouse controlling the B-Line Holding Silo and Muller, and the B-Line Shakeout operation once per day.

(c) To document compliance with Condition D.3.10, the Permittee shall maintain records of the pressure drop once per day;

(d) To document compliance with Condition D.3.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the B-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed monthly using the equations in condition D.3.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.3.5, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the B-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed monthly using the equations in condition D.3.8(b); and
(4) Organic HAP emissions in tons per year.

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

D.3.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1(a) and (b), D.3.3(c), D.3.4 and D.3.5, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.3.4 and D.3.5, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(g) one (1) mold making operation (ID No. Floor Molding) consisting of the following:
- (1) one (1) High Speed Continuous Sand Mixer (ID Mixer) and associated High Speed Continuous Sand Mixer hopper, each installed in 2001, with a maximum mold sand throughput of 42 tons per hour, with the hopper controlled by one (1) baghouse (ID 30-DC-6), exhausting through one (1) stack (ID No. 30-DC-6).
- (2) one (1) metal pouring operation (ID No. Floor Pouring), installed in 1922, with a maximum throughput of 6 tons per hour of molten metal, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour, exhausting inside the building;
- (3) one (1) metal cooling operation (ID No. Floor Cooling), installed in 1922, with a maximum throughput of 6 tons per hour of molten metal, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour, exhausting inside the building;
- (4) one (1) mold shakeout operation (ID No. Floor Shakeout), installed in 1922, with a maximum metal casting throughput of 6 tons per hour, a maximum throughput of 3 tons of core sand per hour, and a maximum throughput of 26 tons of mold sand per hour. The Floor Shakeout is uncontrolled and exhausts inside the building;

(h) one (1) casting knockout station (ID Floor Knockout Station), installed in 1965, with a maximum throughput of 15 tons of iron castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building.

(i) one (1) Wheelabrator shot blast machine (ID No. Shot Blast), installed in 1990, with a maximum throughput of 31 tons of iron castings per hour, controlled by one (1) baghouse (ID No. 36-DC-8), exhausting inside the building;

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

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

D.4.1 PSD Minor Limit [326 IAC 2-2]

(a) Total PM and PM10 emissions from the Wheelabrator shot blast machine, installed in 1990, shall not exceed 0.70 and 0.42 pound per ton of metal throughput, respectively.

(b) The throughput of metal to the Wheelabrator shot blast machine shall not exceed 71,200 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(c) The total PM and PM10 emissions from the High Speed Continuous Sand Mixer, constructed in 2001, and its associated sand hopper, constructed in 2001, that is controlled by the baghouse identified as 30-DC-6 that exhausts through stack ID No. 30-DC-6, shall not exceed 0.01 and 0.01 pound per ton of sand throughput, respectively.

(d) The throughput of sand to the High Speed Continuous Sand Mixer (ID Mixer), constructed in 2001, shall be limited to a maximum of 42,574 tons of sand per twelve (12) consecutive month period, with compliance determined at the end of each month.

(e) The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 471,789 pounds of resin per 12 consecutive month period, with compliance determined at the end of each month.

(f) The VOC emissions from the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 0.05 pound per pound of resin.

(g) Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

For the emission unit installed in 1990, compliance with the emission limits in paragraph (a) above and the metal throughput limit in paragraph (b) limits total PM and PM10 emissions to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

For the High Speed Continuous Sand Mixer, its associated hopper, and the indoor scrap handling system (listed in section D.6), all installed in 2001, compliance with the PM and PM10 emission limits in paragraph (c) above, the sand throughput limit in paragraph (d) above, and the resin and catalyst usage limits and VOC emission limit in paragraphs (e), (f) and (g) above limits PM, PM10, and VOC emissions to less than 25, 15, and 40 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.4.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formulas:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
Floor Pouring	35.00*	41.32
Floor Cooling	35.00*	41.32
Floor Shakeout	35.00*	41.32
Knockout Station	15.00	25.16
High Speed Continuous Mixer & Floor Sand Handling	42.00	42.97
Wheelabrator Shot Blast	31.00	40.24

* Includes 6 tons per hour metal, 26 tons per hour mold sand, and 3 tons per hour core throughput.

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable, the following conditions shall apply:

(a) The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 471,789 pounds of resin per 12 consecutive month period, with compliance determined at the end of each month.

(b) The VOC emissions from the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 0.05 pound per pound of resin.

(c) Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

Compliance with the resin and catalyst usage limits and the VOC emission limit in paragraphs (a), (b) and (c) above will limit VOC emissions from the High Speed Continuous Sand Mixer to less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

D.4.4 Metallic HAP Minor Limit

(a) Total emissions of lead from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.83 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.93 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 1.14 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the Wheelabrator shot blast machine shall not exceed 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the Wheelabrator shot blast machine shall not exceed 3.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emission of any combination of metal HAPs from the Wheelabrator shot blast machine 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Floor Pouring, Cooling, Shakeout and Knockout	Lead	0.83
	Manganese	0.93
	Total HAPs	1.14
Wheelabrator Shot Blast Machine	Lead	3.52
	Manganese	3.00
	Total HAPs	3.52

Compliance with the emission limits in paragraphs (a), (b), (d) and (e) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (c) and (f) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.4.5 Organic HAP Minor Limit

(a) The total emissions of xylene from the High Speed Continuous Sand Mixer shall not exceed 0.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of any combination of organic HAPs from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of phenol from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of benzene from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of any combination of organic HAPs from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
Floor Pouring, Cooling and Shakeout	Phenol	1.48
	Benzene	1.48
	Total Organic HAPs	1.48
High Speed Continuous Sand Mixer	Xylene	0.90
	Total Organic HAPs	0.90

Compliance with the emission limits in paragraphs (a), (c), and (d) above in conjunction with the other phenol, benzene, and xylene limits included in this permit limit source-wide phenol, benzene, and xylene emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (b) and (e) above in conjunction with the other combined HAP emission limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.4.6 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 these facilities and any control devices.

Compliance Determination Requirements

D.4.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 54 and 60 months after issuance of this permit, in order to demonstrate compliance with Conditions D.4.1 and D.4.2, the Permittee shall perform PM and PM-10 testing on each of the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station and the Wheelabrator shot blast machine, identified as 30-DC-6, 8-DC-2 and 36-DC-8, respectively, using methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.4.5, the Permittee shall perform total organic HAP testing on the High Speed Continuous Sand Mixer utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.4.8 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.4.1 and D.4.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the High Speed Continuous Sand Mixer hopper, the Floor Knockout Station and the Wheelabrator shot blast machine at all times that the High Speed Continuous Sand Mixer hopper, the Floor Knockout Station and the Wheelabrator shot blast machine are in operation.

(b) In order to comply with Condition D.4.4, the baghouses for PM, PM10 and metallic HAP control shall be in operation and control emissions from the Floor Knockout Station and the Wheelabrator shot blast machine at all times that the Floor Knockout Station and the Wheelabrator shot blast machine are in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.4.4 shall be demonstrated using the following equations:

(1) Lead Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPPb} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCPb} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSPb} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKPb} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{FPPb} = 0.01617 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)

EF_{FCPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)
EF_{FSPb} = 0.01232 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)
EF_{FKPb} = 0.0256 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPMn} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCMn} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSMn} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKMn} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{FPMn} = 0.1302 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)
EF_{FCMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)
EF_{FSMn} = 0.0992 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)
EF_{FKMn} = 0.0206 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPTM} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCTM} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSTM} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKTM} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{FPTM} = 0.1591 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)
EF_{FCTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)
EF_{FSTM} = 0.12122 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)

EF_{FKTM} = 0.0252 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(4) Lead Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WPb} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WPb} = 0.00137 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(5) Manganese Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WMn} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WMn} = 0.0111 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(6) Total Metal HAP Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WTM} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WTM} = 0.0135 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.4.5 shall be demonstrated using the following equations:

(1) Phenol Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FPh} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPh} = 0.0039 pound phenol per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)
R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FB} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FB} = 0.00535 pound benzene per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)

R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FTO} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{FTO} = 0.01236 pound combined organic HAP per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)

R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(4) Xylene Emissions from the High Speed Continuous Sand Mixer (tons/yr) = [EF_{MR1X} (lb/lb) x R_{MNB1} (pounds per twelve (12) consecutive month period)] + [EF_{MCX} (lb/lb) x C_{MNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{MR1X} = 0.001 pound xylene per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB1} = total No Bake Part I resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MCX} = 0.0489 pound xylene per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{MNB} = total No Bake catalyst usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(5) Total HAP Emissions from the High Speed Continuous Sand Mixer (tons/yr) = [EF_{MR1TO} (lb/lb) x R_{MNB1} (pounds per twelve (12) consecutive month period)] + [EF_{MR2TO} (lb/lb) x R_{MNB2} (pounds per twelve (12) consecutive month period)] + [EF_{MCTO} (lb/lb) x C_{MNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{MR1TO} = 0.0032 pound total organic HAPs per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB1} = total No Bake Part I resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MR2TO} = 0.002 pound total organic HAPs per pound of No Bake Part II resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB2} = total No Bake Part II resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MCTO} = 0.0698 pound total organic HAPs per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{MNB} = total No Bake catalyst usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of any HAP compliance stack test results on the Floor Pouring, Cooling, Shakeout, or Knockout operations, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{FPPb}, EF_{FCPb}, EF_{FSPb}, EF_{FKPb}, EF_{FPMn}, EF_{FCMn}, EF_{FSMn}, EF_{FKMn}, EF_{FPTM}, EF_{FCTM}, EF_{FSTM}, EF_{FKTM}, EF_{FPh}, EF_{FB}, and EF_{FTO}, as applicable.

(d) Upon IDEM approval of any HAP compliance stack test results on the Wheelabrator Shot Blast machine, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{WPb}, EF_{WMn}, and EF_{WTM} as applicable.

(e) Upon IDEM approval of total organic HAP compliance stack test results on the High Speed Continuous Sand Mixer, the xylene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{MR1X}, EF_{MR1TO}, and EF_{MR2TO}.

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

D.4.10 Visible Emissions Notations

(a) Visible emission notations of the Floor pouring and cooling operations and each of the stack exhausts for the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine, shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.4.11 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses used in conjunction with the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine, at least once per day when the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and 7.0 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 from 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.4.12 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.4.13 Record Keeping Requirements

(a) To document compliance with Condition D.4.1(d), the Permittee shall maintain records of the sand throughput to the High Speed Continuous Sand Mixer for each month.

(b) To document compliance with Conditions D.4.1(e), D.4.1(g), D.4.3(a), and D.4.3(c), the Permittee shall maintain records of the resin and catalyst usage for the High Speed Continuous Sand Mixer for each month.

(c) To document compliance with Condition D.4.1(f) and D.4.3(b), the Permittee shall maintain records of the VOC content of the binders used for the High Speed Continuous Sand Mixer each month.

(d) To document compliance with Condition D.4.1(b), the Permittee shall maintain records of the metal throughput to the Wheelabrator shot blast machine for each month.

(e) To document compliance with Condition D.4.10, the Permittee shall maintain records of visible emission notations of the Floor pouring and cooling operations and each of the stack exhausts for the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine once per day.

(f) To document compliance with Condition D.4.11, the Permittee shall maintain records of the pressure drop once per day;

(g) To document compliance with Condition D.4.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the Floor Pouring, Floor Cooling, Floor Shakeout, and Floor Knockout operations for each month;
(2) tons of metal throughput to the Wheelabrator shot blast machine for each month;
(3) HAP stack test results for the Floor Pouring, Cooling, Shakeout, and Knockout operations or the Wheelabrator shot blast machine as applicable;

(4) Metallic HAP emission calculations performed monthly using the equations in condition D.4.9(a); and
(5) Metallic HAP emissions in tons per year.

(h) To document compliance with Condition D.4.5, the Permittee shall maintain records of the following:

(1) pounds of Part I and Part II resin used in the No Bake core making operation and the High Speed Continuous Sand Mixer for each month;
(2) Organic HAP stack test results for the High Speed Continuous Sand Mixer;
(3) Organic HAP emission calculations performed monthly using the equations in condition D.4.9(b); and
(4) Organic HAP emissions in tons per year.

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

D.4.14 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.4.1(b), D.4.1(d), D.4.1(e), D.4.1(g), D.4.3(a), D.4.3(c), D.4.4 and D.4.5, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.4.4 and D.4.5, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(j) one (1) Chill Iron shot blast machine (ID No. Chill Iron Shot Blast), installed in 1972, with a maximum throughput of 3,500 pounds of castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building;

(k) one (1) paint spray booth (ID No. Spray Painting), installed in 1982, using a high volume low pressure (HVLP) coating application system, using a maximum of 9.8 pounds of coating per hour to coat metal base boards and a maximum of 10 gallons per year of paint thinner, with dry filters for particulate matter overspray control, exhausting through one (1) stack (ID No. 5-E-1);

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

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

D.5.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Chill Iron shot blast machine shall not exceed 5.96 pounds per hour when operating at a process weight rate of 3,500 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.5.2 HAP Minor Limit

(a) Emissions of lead from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the Chill Iron shot blast machine shall not exceed 0.17 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of metal HAPs from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Chill Iron shot blast machine	Lead	0.20
	Manganese	0.17
	Total HAPs	0.20

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.5.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the paint spray booth shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.5.4 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 its control device.

Compliance Determination Requirements

D.5.5 Particulate Matter (PM) and HAPs

(a) In order to comply with conditions D.5.1 and D.5.2, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the Chill Iron shot blast machine at all times that the Chill Iron shot blast machine is in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.5.6 HAP Emissions

Compliance with the HAP limits in condition D.5.2 shall be demonstrated using the following equations:

(a) Lead Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChPb} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{ChPb} = 0.0013 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(b) Manganese Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChMn} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{ChMn} = 0.0105 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(c) Total Metal HAP Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChTM} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{ChTM} = 0.0128 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(d) Upon IDEM approval of any HAP compliance stack test results on the Chill Iron Shot Blast machine, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{ChPb}, EF_{ChMn}, and EF_{ChTM} as applicable.

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

D.5.7 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the Chill Iron shot blast machine shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.5.8 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters in the paint spray booth. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stack (5-E-1) while the booth is in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack**s** and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.5.9 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the Chill Iron shot blast machine, at least once per day when the Chill Iron shot blast machine 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 1.0 and 7.0 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 from 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.5.10 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.5.11 Record Keeping Requirements

(a) To document compliance with Condition D.5.7, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the Chill Iron shot blast machine once per day.

(b) To document compliance with Condition D.5.8, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.

(c) To document compliance with Condition D.5.9, the Permittee shall maintain records of the pressure drop once per day;

(d) To document compliance with Condition D.5.2, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the Chill Iron shot blast machine for each month;
(2) HAP stack test results for the Chill Iron shot blast machine as applicable;
(3) Metallic HAP emission calculations performed monthly using the equations in condition D.5.6; and
(4) Metallic HAP emissions in tons per year.

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

D.5.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.5.2, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.5.2, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(l) One (1) indoor scrap handling operation consisting of the following:
- (1) one (1) metal scrap crusher, with a maximum scrap metal throughput of 15 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);
- (2) one (1) rotary reclaimer, with maximum scrap metal and sand throughputs of 15 and 10 tons per hour, respectively, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);
- (3) one (1) sand and metal conveyor, with maximum scrap metal and sand throughputs of 15 and 10 tons per hour, respectively, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5); and
- (4) one (1) enclosed conveyor system transporting spent sand to spent sand storage silo, with a maximum sand storage capacity of 100 tons, and a maximum sand throughput of 10 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5).

(m) one (1) pneumatically conveyed raw sand storage silo for the High Speed Continuous Sand Mixer, with a maximum sand storage capacity of 75 tons, and a maximum sand throughput of 10 tons per hour, with one (1) baghouse (ID No. 39-DC-5) for control of particulate matter emissions, exhausting through one (1) stack (ID No. 39-DC-5);

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

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

D.6.1 PSD Minor Limit [326 IAC 2-2]

(a) The total PM and PM10 emissions from the indoor scrap handling operation and the raw sand storage silo that are controlled by the baghouse that exhausts through stack No. 39-DC-5 shall not exceed 0.10 and 0.06 pound per ton of metal and sand throughput, respectively.

(b) The throughput of sand from the raw sand storage silo shall not exceed 42,574 tons of sand per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above PM and PM10 emission limitations and the sand throughput limitation will limit total PM and PM10 emissions from the indoor scrap handling operation, the raw sand storage silo, and the High Speed Continuous Sand Mixer (listed in section D.4) to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.6.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
Crusher	15.00	25.16
Rotary Reclaimer	25.00	35.43
Spent Sand Storage Silo	10.00	19.18
Sand and Metal Conveyor	25.00	35.43
Raw Sand Storage Silo	10.00	19.18

(b) For purposes of demonstrating compliance with the particulate emission limits for the indoor scrap handling operation and the raw sand storage silo, all of which are controlled by the baghouse that exhausts through stack No. 39-DC-5, the allowable particulate emission rate from stack No. 39-DC-5 shall be limited to 134.38 pounds per hour.

D.6.3 HAP Minor Limit

(a) Emissions of lead from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the scrap handling rotary reclaimer shall not exceed 0.27 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of metal HAPs from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Scrap Handling Rotary Reclaimer	Lead	0.32
	Manganese	0.27
	Total HAPs	0.32

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.6.4 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 these facilities and any control devices.

Compliance Determination Requirements

D.6.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.6.1 and D.6.2, the Permittee shall perform PM and PM-10 testing on the baghouse that exhausts through stack No. 39-DC-5 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

D.6.6 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.6.1 and D.6.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer at all times that the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer are in operation.

(b) In order to comply with Condition D.6.3, the baghouse for PM, PM10 and metallic HAP control shall be in operation and control emissions from the indoor scrap handling operation at all times that the indoor scrap handling operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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.6.7 HAP Emissions

Compliance with the HAP limits in condition D.6.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRPb} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{RRPb} = 0.00014 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(b) Manganese Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRMn} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{RRMn} = 0.0011 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(c) Total HAP Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRTM} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{RRTM} = 0.0013 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(d) Upon IDEM approval of any HAP compliance stack test results on the scrap handling rotary reclaimer, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{RRPb}, EF_{RRMn}, and EF_{RRTM} as applicable.

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

D.6.8 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the indoor scrap handling operation and the raw sand storage silo shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.9 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse controlling the indoor scrap handling system and the raw sand storage silo at least once per day when the indoor scrap handling system and the raw sand storage silo 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 and 7.0 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 from 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.6.10 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.6.11 Record Keeping Requirement

(a) To document compliance with Condition D.6.1(b), the Permittee shall maintain records of the sand throughput to the raw sand storage silo for each month.

(b) To document compliance with Condition D.6.8, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the indoor scrap handling operation and the raw sand storage silo once per day.

(c) To document compliance with Condition D.6.9, the Permittee shall maintain records of the pressure drop once per day;

(d) To document compliance with Condition D.6.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the scrap handling rotary reclaimer for each month;
(2) HAP stack test results for the scrap handling rotary reclaimer as applicable;
(3) Metallic HAP emission calculations performed monthly using the equations in condition D.6.7; and
(4) Metallic HAP emissions in tons per year.

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

D.6.12 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.6.1(b) and D.6.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.6.3, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(n) two (2) 200 ton capacity core and mold sand silos (ID Nos. Silo #1 and Silo #2), both installed in 1950, each with a maximum sand throughput of 16.8 tons per hour, both controlled by one (1) baghouse (ID 37-1-DC-3), exhausting through one (1) stack (ID No. 37-1-DC-3);

(o) one (1) Cold Box core making operation consisting of the following:
- (1) one (1) Cold Box sand mixer, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);
- (2) one (1) Cold Box core machine, installed in 1975, with a maximum throughput of 5.8 tons per hour of sand, with VOC and HAP emissions controlled by one (1) natural gas fired afterburner (ID No. Afterburner J), rated at 1.4 MMBtu per hour, exhausting through one (1) stack (ID No. 37-1-E-2); and
- (3) one (1) 10 ton capacity Cold Box line sand hopper and elevator, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(p) one (1) No Bake core making operation consisting of the following:
- (1) one (1) enclosed No Bake sand mixer, installed in 1979, consisting of the No Bake Large Core Mixer and the No Bake Small Core Mixer, with a maximum sand throughput of 6.0 tons per hour;
- (2) one (1) No Bake core machine, installed in 1979, with a maximum throughput of 6.0 tons per hour of sand, exhausting inside the building; and
- (3) one (1) 10 ton capacity No Bake line sand hopper, installed in 1979, with a maximum sand throughput of 6.0 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(q) one (1) Warm Box core making operation consisting of the following:
- (1) two (2) Warm Box mixers (ID Nos. Mixer 1 and Mixer 2), installed in 1971 and 1981, respectively, each with maximum throughputs of 3.5 and 1.5 tons of sand per hour, respectively, both controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);
- (2) three (3) Warm Box core machines (ID Warm Box Core Machines #1, #2, and #3), installed in 1971, 1976, and 1981, respectively, each with a maximum throughput of 1.73 tons per hour of sand, all exhausting inside the building; and
- (3) one (1) 10 ton capacity Warm Box line sand hopper, installed in 1971, with a maximum sand throughput of 5.0 tons of sand per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

(r) one (1) enclosed 10 ton capacity core and mold sand hopper, elevator, and conveyor, installed in 1975, with a maximum sand throughput of 16.8 tons per hour; and

(s) one (1) dip tank (ID No. Dip Tank Painting), installed in 1970, using a maximum of 5.8 pounds of coating per hour to coat metal parts, exhausting through one (1) stack (ID No. 3-E-1).

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

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

D.7.1 PSD Minor Limit [326 IAC 2-2]

(a) Total PM emissions from the baghouse (36-1-DC-7) controlling PM emissions from the No Bake line sand hopper installed in 1979, shall not exceed 0.28 pounds per hour. The baghouse (36-1-DC-7) shall be in operation at all times that the No Bake line sand hopper is in operation and shall maintain a minimum capture efficiency of 75% in order to comply with this limit. This PM limit and associated capture efficiency requirement in conjunction with the fugitive PM emissions from the No Bake line sand hopper will limit emissions from the No Bake line sand hopper to less than 25 tons per year.

(b) The resin usage for the No bake core machine shall not exceed 255,867 pounds of resin per 12 consecutive month period, with compliance determined at the end of each month. Catalyst usage for the No Bake core machine shall not exceed 63,967 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

(c) The VOC emissions from resin usage in the No Bake core machine shall not exceed 0.05 pound per pound of resin.

Compliance with the PM emission limit, the resin and catalyst usage limits and the VOC emission limit for the No Bake resins will limit total VOC and PM emissions from all emission units installed in 1979 to less than 40 and 25 tons per year, respectively, so that the requirements of 326 IAC 2-2 (PSD) do not apply.

D.7.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the emission units listed in the table below shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The allowable emissions for each facility are as follows:

Emission Unit ID	Process Weight (tons/hr)	Allowable Particulate Emissions (lb/hr)
Cold Box Line Mixer and Sand Handling	5.80	13.31
No Bake Line Sand Handling	6.00	13.62
Warm Box Line Sand Handling	5.00	12.05

(b) For purposes of demonstrating compliance with the particulate emission limits pursuant to 326 IAC 6-3-2 for the Isocure Sand Mixer and sand handling, the Pepset line sand handling, the Warm Box line sand handling, and the B-Line Shakeout and the B-Line Muller & Sand Handling (including the B-Line Holding Silo) listed in section D.3, all of which are controlled by the baghouse identified as 36-1-DC-7, the allowable particulate emission rate from the baghouse identified as 36-1-DC-7 shall be limited to 142.77 pounds per hour.

D.7.3 HAP Minor Limit

(a) The total emissions of xylene from the No Bake core making operation shall not exceed 0.80 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of any combination of HAPs from the No Bake core making operation shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) The total emissions of ethylene glycol from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) The total emissions of phenol from the Warm Box core making operation shall not exceed 4.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) The total emissions of any combination of HAPs from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
No Bake Core Making	Xylene	0.80
	Total HAPs	0.80
Warm Box Core Making	Ethylene glycol	5.22
	Phenol	4.03
	Total HAPs	5.22

Compliance with the emission limits in paragraphs (a) and (d) above in conjunction with other xylene and phenol limits included in this permit limit source-wide xylene and phenol emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above limits source-wide ethylene glycol emissions to less than 10 tons per year. Compliance with the limits in paragraphs (b) and (e) above in conjunction with other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.7.4 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 these facilities and any control device.

Compliance Determination Requirements

D.7.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate compliance with Conditions D.7.1 and D.7.2, the Permittee shall perform PM testing on the baghouse identified as 36-1-DC-7, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.7.3, the Permittee shall perform total organic HAP testing on the No Bake core making operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.7.6 Particulate Matter (PM)

(a) In order to comply with Conditions D.7.1 and D.7.2, the baghouse for PM control shall be in operation and control emissions from the Cold Box Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers, at all times that the Cold Box Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers are in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.7.7 HAP Emissions

Compliance with the HAP limits in condition D.7.3 shall be demonstrated using the following equations:

(a) Xylene Emissions from the No Bake core making operation (tons/yr) = [EF_{NBR1X} (lb/lb) x R_{CNB1} (pounds per twelve (12) consecutive month period)] + [EF_{NBCX} (lb/lb) x C_{CNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{NBR1X} = 0.001 pound xylene per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB1} = total No Bake Part I resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBCX} = 0.0489 pound xylene per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{CNB} = total No Bake catalyst usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

(b) Total Organic HAP Emissions from the No Bake core making operation (tons/yr) = [EF_{NBR1TO} (lb/lb) x R_{CNB1} (pounds per twelve (12) consecutive month period)] + [EF_{NBR2TO} (lb/lb) x R_{CNB2} (pounds per twelve (12) consecutive month period)] + [EF_{NBCTO} (lb/lb) x C_{CNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{NBR1TO} = 0.0032 pound total organic HAPs per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB1} = total No Bake Part I resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBR2TO} = 0.002 pound total organic HAPs per pound of No Bake Part II resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB2} = total No Bake Part II resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBCTO} = 0.0698 pound total organic HAPs per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{CNB} = total No Bake catalyst usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

(c) Ethylene Glycol Emissions from the Warm Box core making operation (tons/yr) = EF_{WBEG} (lb/lb) x C_{WB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WBEG} = 0.08 pound ethylene glycol per pound of Warm Box catalyst used (based on MSDS for catalyst)
C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(d) Phenol Emissions from the Warm Box core making operation (tons/yr) = E_{WBPh} (lb/lb) x C_{WB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
E_{WBPh} = 0.06 pound phenol per pound of Warm Box catalyst used (based on MSDS for catalyst)
C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(e) Total HAP Emissions from the Warm Box core making operation (tons/yr) = [EF_{WBRTO} (lb/lb) x R_{WB} (pounds per twelve (12) consecutive month period)] + [EF_{WBCTO} (lb/lb) x C_{WB} pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{WBRTO} = 0.00075 pound total organic HAPs per pound of Warm Box resin used
R_{WB} = total Warm Box resin usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)
EF_{WBCTO} = 0.14 pound total organic HAPs per pound of Warm Box catalyst used (based on MSDS for catalyst)
C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(f) Upon IDEM approval of total organic HAP compliance stack test results on the No Bake core making operation, the xylene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{NBR1X}, EF_{NBR1TO}, and EF_{NBR2TO}.

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

D.7.8 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the Cold Box Line Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper, identified as 36-1-DC-7, shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.7.9 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse controlling the Cold Box Line Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper at least once per day when the Cold Box Line Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper 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 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 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 from 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.7.10 Broken or Failed Bag Detection

(a) 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.7.11 Record Keeping Requirement

(a) To document compliance with Condition D.7.1(a), the Permittee shall maintain records of the sand throughput to the No Bake Sand Mixer, the No Bake core machine, and the No Bake line sand hopper for each month.

(b) To document compliance with Conditions D.7.1(c), the Permittee shall maintain records of the resin and catalyst usage for the No Bake core machine for each month.

(c) To document compliance with Condition D.7.3, the Permittee shall maintain records of the following:

(1) pounds of combined catalyst and combined resin usage for the Warm Box core machines for each month;
(2) Organic HAP stack test results for the No Bake core making operation;
(3) Organic HAP emission calculations performed monthly using the equations in condition D.7.7; and
(4) Organic HAP emissions in tons per year.

(d) To document compliance with Condition D.7.8, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the Cold Box Line Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper once per day.

(e) To document compliance with Condition D.7.9, the Permittee shall maintain records of the pressure drop once per day;

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

D.7.12 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.7.1(a), D.7.1(c) and D.7.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.7.3, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020

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: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

X 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

X 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

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 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: four (4) electric induction furnaces, the electric holding furnace, and the charge handling system
Parameter: PM and PM10 emissions and Lead, Manganese and combined HAP emissions
Limit: The throughput of metal to each of the following facilities shall not exceed 50,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month: (1) all four (4) electric induction furnaces; (2) the electric holding furnace; and (3) the charge handling system

YEAR:

Month	Metal Throughput This Month (tons)			Metal Throughput Previous 11 Months (tons)			12 Month Total Metal Throughput (tons)		
	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: A-Line Muller
Parameter: PM emissions
Limit: The throughput of sand to the A-Line Muller and A-Line Holding Silo shall not exceed 464,200 tons per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations
Parameter: PM emissions
Limit: The throughput of metal to each of the B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations shall not exceed 31,500 tons per twelve (12) consecutive month period.

YEAR:

Month	Metal Throughput This Month (tons)			Metal Throughput Previous 11 Months (tons)			12 Month Total Metal Throughput (tons)		
	B-Line Pouring	B-Line Cooling	B-Line Shakeout	B-Line Pouring	B-Line Cooling	B-Line Shakeout	B-Line Pouring	B-Line Cooling	B-Line Shakeout

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: B-Line Muller
Parameter: PM emissions
Limit: The throughput of sand to the B-Line Muller and B-Line Holding Silo shall not exceed 130,000 tons per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: High Speed Continuous Sand Mixer and Hopper
Parameter: PM, PM10, and VOC emissions
Limit: The throughput of sand to the High Speed Continuous Sand Mixer (ID Mixer) shall be limited to a maximum of 42,574 tons of sand per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: High Speed Continuous Sand Mixer
Parameter: VOC emissions
Limit: (a) The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 471,789 pounds of resin per 12 consecutive month period.
(b) Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1		Column 2		Column 1 + Column 2	
	Resin Usage This Month (pounds)	Catalyst Usage This Month (pounds)	Resin Usage Previous 11 Months (pounds)	Catalyst Usage Previous 11 Months (pounds)	12 Month Total Resin Usage (pounds)	12 Month Total Catalyst Usage (pounds)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Wheelabrator shot blast machine
Parameter: VOC emissions
Limit: The throughput of metal to the Wheelabrator shot blast machine shall not exceed 71,200 tons per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Metal Throughput This Month (tons)	Metal Throughput Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: raw sand storage silo for the High Speed Continuous Sand Mixer
Parameter: PM and PM10 emissions
Limit: The throughput of sand from the raw sand storage silo shall not exceed 42,574 tons of sand per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: No Bake core machine
Parameter: VOC emissions
Limit: The resin usage for the No Bake core machine shall not exceed 255,867 pounds of resin per 12 consecutive month period. Catalyst usage for the No Bake core machine shall not exceed 63,967 pounds of VOC catalyst per 12 consecutive month period.

YEAR:

Month	Column 1		Column 2		Column 1 + Column 2	
	Resin Usage This Month (pounds)	Catalyst Usage This Month (pounds)	Resin Usage Previous 11 Months (pounds)	Catalyst Usage Previous 11 Months (pounds)	12 Month Total Resin Usage (pounds)	12 Month Total Catalyst Usage (pounds)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: four (4) electric induction furnaces
Parameter: Lead, manganese and total HAP emissions
Limit:

(a) Emissions of lead from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.32 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 0.66 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emission of any combination of HAPs from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.43 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.1.7(a), (c), and (e). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: charge handling
Parameter: Lead, manganese and total HAP emissions
Limit:

(a) Emissions of lead from the charge handling system shall not exceed 0.10 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the charge handling system shall not exceed 0.47 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of HAPs from the charge handling system shall not exceed 0.57 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.1.7(b), (d), and (f). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: A-Line Pouring, Cooling, and Shakeout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:

(a) Total emissions of lead from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.04 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.71 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.2.8(a). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: A-Line and B-Line Pouring, Cooling, and Shakeout operations
Parameter: Phenol, benzene, and total organic HAP emissions
Limit:

(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.2.8(b) and D.3.8(b). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Phenol Emissions This Month (tons)	Benzene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Phenol Emissions Previous 11 Months (tons)	Benzene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: B-Line Pouring, Cooling, and Shakeout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:

(a) Total emissions of lead from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 0.65 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.67 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.3.8(a). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Floor Pouring, Cooling, Shakeout, and Knockout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:

(a) Total emissions of lead from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.83 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.93 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 1.14 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.4.9(a)(1) through (3). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Floor Pouring, Cooling, Shakeout, and Knockout operations
Parameter: Phenol, benzene, and total organic HAP emissions
Limit:
(a) Emissions of phenol from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of benzene from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of organic HAPs from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.4.9(b)(1) through (3). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Phenol Emissions This Month (tons)	Benzene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Phenol Emissions Previous 11 Months (tons)	Benzene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Wheelabrator shot blast machine
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the Wheelabrator shot blast machine shall not exceed 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the Wheelabrator shot blast machine shall not exceed 3.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emission of any combination of metal HAPs from the Wheelabrator shot blast machine 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.4.9(a)(4) through (6). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: High Speed Continuous Sand Mixer
Parameter: Xylene and total organic HAP emissions
Limit: (a) The total emissions of xylene from the High Speed Continuous Sand Mixer shall not exceed 0.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) The total emissions of any combination of organic HAPs from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.4.9(b)(4) and (5). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + Column 2a	Column 1b + Column 2b
	Xylene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Xylene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)	12 Month Total Xylene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Chill Iron shot blast machine
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the Chill Iron shot blast machine shall not exceed 0.17 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of metal HAPs from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.5.9. Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: scrap handling rotary reclaimer
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the scrap handling rotary reclaimer shall not exceed 0.27 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of metal HAPs from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.6.7. Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: No Bake core making operation
Parameter: Xylene and total HAP emissions
Limit: (a) The total emissions of xylene from the No Bake core making operation shall not exceed 0.80 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) The total emissions of any combination of HAPs from the No Bake core making operation shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.7.7(1) and (2). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + Column 2a	Column 1b + Column 2b
	Xylene Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Xylene Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)	12 Month Total Xylene Emissions (tons)	12 Month Total HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Warm Box core making operation
Parameter: Ethylene glycol, phenol, and total HAP emissions
Limit:

(a) The total emissions of ethylene glycol from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of phenol from the Warm Box core making operation shall not exceed 4.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) The total emissions of any combination of HAPs from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.7.7(3) through (5). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Ethylene glycol Emissions This Month (tons)	Phenol Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Ethylene glycol Emissions Previous 11 Months (tons)	Phenol Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Ethylene glycol Emissions (tons)	12 Month Total Phenol Emissions (tons)	12 Month Total HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020

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.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for a Significant Permit Modification to a
Part 70 Operating Permit

Source Name:	Weil-McLain
Source Location:	500 Blaine Street, Michigan City, Indiana 46360
County:	LaPorte
SIC Code:	3321
Permit Modification No.:	091-20949-00020
Permit Reviewer:	Trish Earls/EVP

On March 16, 2007, the Office of Air Quality (OAQ) had a notice published in the News Dispatch, Michigan City, Indiana, stating that Weil-McLain had applied for a Significant Permit Modification to update equipment descriptions, update emission calculations, and incorporate changes to the permit pursuant to a Joint Agreement Regarding Stay (Agreement) that Weil-McLain and IDEM entered into on August 14, 2003. Weil-McLain had also applied to incorporate federally enforceable limits to limit single HAP emissions to less than 10 tons per year and to limit any combination of HAP emissions to less than 25 tons per year, and to include additional insignificant activities. The notice also stated that OAQ proposed to issue a permit for this modification 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 thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On March 22, 2007, Gary Connor of Weil McLain submitted comments on the proposed permit. The summary of the comments and corresponding responses is as follows (additions in **bold**, deletions in ~~strikeout~~):

Comment #1

Condition D.1.7(b) - update emission factor to 0.00231 lb/ton;
Condition D.1.7(d) - update emission factor to 0.0186 lb/ton;
Condition D.1.7(f) - update emission factor to 0.02273 lb/ton.

Response #1

The correct emission factors for lead, manganese and total metallic HAP emissions from the charge handling operation have been included in condition D.1.7. The corrections to the emission factors were corrections to typographical errors only and have no effect on the emission calculations or the emission limitations in the permit.

D.1.7 HAP Emissions

Compliance with the HAP limits in condition D.1.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FPb} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPb} = 0.0545 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(b) Lead Emissions from the charge handling operation (tons/yr) = EF_{CHPb} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHPb} = ~~0.00094~~ **0.00231** pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(c) Manganese Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FMn} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FMn} = 0.02108 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(d) Manganese Emissions from the charge handling operation (tons/yr) = EF_{CHMn} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHMn} = ~~0.00755~~ **0.0186** pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(e) Total Metal HAP Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FTM} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FTM} = 0.07764 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(f) Total Metal HAP Emissions from the charge handling operation (tons/yr) = EF_{CHTM} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHTM} = ~~0.00923~~ **0.02273** pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(g) Upon IDEM approval of lead and manganese compliance stack test results on one (1) of the four (4) electric induction furnaces, the following shall apply:

(1) The lead and manganese emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{FPb} and EF_{FMn}.

(2) The total metal HAP emission factor in pound per ton that shall be used for the variable EF_{FTM} shall be the sum of the lead emission factor obtained from the stack test, the manganese emission factor obtained from the stack test and the remaining non-lead and non-manganese metal HAP emission factors used to calculate emissions.

Comment #2

Conditions D.1.11, D.2.12, D.3.12, D.4.13, D.5.13, D.6.11, and D.7.11, Record Keeping Requirements - revise the individual and total HAP emission calculations to require monthly documentation.

Response #2

The record keeping conditions in all D sections have been revised as requested. Condition D.5.13, is now re-numbered D.5.11 due to the changes identified in Response #3 below.

D.1.11 Record Keeping Requirements

***

(d) To document compliance with condition D.1.3, the Permittee shall maintain records of the following:

(1) HAP stack test results for one (1) of the four (4) electric induction furnaces;
(2) HAP emission calculations performed **monthly** using the equations in condition D.1.7; and
(3) HAP emissions in tons per year.

***

D.2.12 Record Keeping Requirements

***

(d) To document compliance with Condition D.2.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the A-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed **monthly** using the equations in condition D.2.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.2.4, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the A-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed **monthly** using the equations in condition D.2.8(b); and
(4) Organic HAP emissions in tons per year.

***

D.3.12 Record Keeping Requirements

***

(d) To document compliance with Condition D.3.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the B-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed **monthly** using the equations in condition D.3.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.3.5, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the B-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed **monthly** using the equations in condition D.3.8(b); and
(4) Organic HAP emissions in tons per year.

***

D.4.13 Record Keeping Requirements

***

(g) To document compliance with Condition D.4.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the Floor Pouring, Floor Cooling, Floor Shakeout, and Floor Knockout operations for each month;
(2) tons of metal throughput to the Wheelabrator shot blast machine for each month;
(3) HAP stack test results for the Floor Pouring, Cooling, Shakeout, and Knockout operations or the Wheelabrator shot blast machine as applicable;
(4) Metallic HAP emission calculations performed **monthly** using the equations in condition D.4.9(a); and
(5) Metallic HAP emissions in tons per year.

(h) To document compliance with Condition D.4.5, the Permittee shall maintain records of the following:

(1) pounds of Part I and Part II resin used in the No Bake core making operation and the High Speed Continuous Sand Mixer for each month;
(2) Organic HAP stack test results for the High Speed Continuous Sand Mixer;
(3) Organic HAP emission calculations performed **monthly** using the equations in condition D.4.9(b); and
(4) Organic HAP emissions in tons per year.

***

D.5.~~13~~**11** Record Keeping Requirements

***

(d) To document compliance with Condition D.5.~~3~~**2**, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the Chill Iron shot blast machine for each month;
(2) HAP stack test results for the Chill Iron shot blast machine as applicable;
(3) Metallic HAP emission calculations performed **monthly** using the equations in condition D.5.~~8~~**6**; and
(4) Metallic HAP emissions in tons per year.

***

D.6.11 Record Keeping Requirement

***

(d) To document compliance with Condition D.6.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the scrap handling rotary reclaimer for each month;
(2) HAP stack test results for the scrap handling rotary reclaimer as applicable;
(3) Metallic HAP emission calculations performed **monthly** using the equations in condition D.6.7; and
(4) Metallic HAP emissions in tons per year.

***

D.7.11 Record Keeping Requirement

***

(c) To document compliance with Condition D.7.3, the Permittee shall maintain records of the following:

(1) pounds of combined catalyst and combined resin usage for the Warm Box core machines for each month;
(2) Organic HAP stack test results for the No Bake core making operation;
(3) Organic HAP emission calculations performed **monthly** using the equations in condition D.7.7; and
(4) Organic HAP emissions in tons per year.

***

Comment #3

Conditions D.5.2 and D.5.7 - please remove these conditions since the boiler rating and certification operation has been removed from the source.

Response #3

Since the boiler rating and certification operation is no longer present at the source, these conditions have been deleted from the permit. The remaining conditions in section D.5 have been re-numbered accordingly.

~~D.5.2 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1] [326 IAC 7-2-1]~~

~~Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions from the boiler rating and certification operation shall not exceed five tenths (0.5) pounds per MMBtu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.~~

~~D.5.7 Sulfur Dioxide Emissions and Sulfur Content~~

~~Compliance shall be determined utilizing one of the following options.~~

~~(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:~~

~~(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;~~

~~(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.~~

~~(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and~~

~~(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.~~

~~(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler rating and certification operation, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.~~

~~A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.~~

Comment #4

Condition D.6.5 - please revise this section since this testing has already occurred.

Response #4

Since the required testing was already conducted by Weil-McLain, condition D.6.5 is revised as follows:

D.6.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

~~During the period within 60 days after achieving maximum capacity, but no later than 180 days after startup, i~~In order to demonstrate compliance with Conditions D.6.1 and D.6.2, the Permittee shall perform PM and PM-10 testing on the baghouse that exhausts through stack No. 39-DC-5 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C-Performance Testing.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Significant Permit Modification to a Part 70 Operating Permit

Source Background and Description

Source Name:	**Weil-McLain**
Source Location:	**500 Blaine Street, Michigan City, IN 46360**
County:	**LaPorte**
SIC Code:	**3321**
Operation Permit No.:	**T 091-6295-00020**
Operation Permit Issuance Date:	**December 30, 2002**
Permit Modification No.:	**091-20949-00020**
Permit Reviewer:	**Trish Earls/EVP**

The Office of Air Quality (OAQ) has reviewed a modification application from Weil-McLain relating to the operation of a stationary gray iron foundry producing gray iron boilers.

History

On March 14, 2005, Weil-McLain submitted an application to the OAQ requesting the following changes be made to their Part 70 permit:

(a) Refer to the Isocure core making process as a “cold box core making process” throughout the permit, TSD and emission calculations. The USEPA and the foundry industry identify this process by the name “cold box core making process” versus a vendor specific name like Isocure, Sigma Cure or Technikure.

(b) Refer to the Pepset core making process as a “No Bake core making process” throughout the permit, TSD and emission calculations. The USEPA and the foundry industry identify this process by the name “No Bake core making process” versus a vendor specific name like Novathane, Quickset, Pepset, Sigma Set, Techniset or Uniset.

(c) Update the pressure drop ranges as follows:
Condition D.1.7, collector ID 39-DC-4, change to 1.0 to 7.0 inches of water
Condition D.4.8, collector ID 30-DC-6, change to 1.0 to 7.0 inches of water
Condition D.4.8, collector ID 8-DC-2, change to 1.0 to 7.0 inches of water
Condition D.4.8, collector ID 36-DC-8, change to 1.0 to 7.0 inches of water
Condition D.5.9, collector ID 8-DC-2, change to 1.0 to 7.0 inches of water
Condition D.6.7, collector ID 39-DC-5, change to 1.0 to 7.0 inches of water

(d) In the original Title V permit, the PM emission calculations for the Floor Shakeout operation, installed in 1922, were based on an emission factor provided by Weil-McLain in the original Title V permit application which was to be verified by stack testing. Therefore, the original Title V permit included a stack testing requirement for the Floor Shakeout operation. The source has now requested that the AP-42 emission factor for shakeout operations at gray iron foundries of 3.2 pounds PM per ton of metal be used to calculate the Floor Shakeout PM emissions instead of the alternate emission factor of 2.26 pounds PM per ton of metal. The Floor Shakeout operation will continue to comply with the particulate emission limit pursuant to 326 IAC 6-3-2 using the AP-42 emission factor. Therefore, the testing requirement for the Floor Shakeout operation is no longer necessary and will be removed from the permit. The revised potential to emit calculations have been included in Appendix A of this document.

(e) The cold box core machines now utilize a cold box catalyst identified as an amine gas that does not contain any HAPs. Therefore, there are no HAP emissions from catalyst usage in the cold box core machines. The revised potential to emit calculations have been included in Appendix A of this document.

(f) The catalyst component of the High Speed Continuous Sand Mixer utilized in the floor molding operations was unintentionally left out of the Part 70 permit. The potential emissions from this operation will be updated, however, the limited potential to emit will remain unchanged at 24.9 tons per year of VOC.

(g) The manufacturer of the catalyst utilized in the warm box core making operations has eliminated methanol, a designated HAP, from the catalyst. The catalyst has been reformulated to contain 8% ethylene glycol and 6% phenol. In addition, Weil-McLain is requesting a catalyst usage limit of 20,000 pounds per year for each of the three warm box core machines to limit worst-case single HAP emissions to less than 10 tons per year. The VOC and HAP emissions from this operation will be updated to reflect the catalyst reformulation.

The warm box core making operation also utilizes a release agent and drying agent. The original Title V permit showed only the cold box and no bake core making operations utilizing release agents or parting sprays. Emission calculations for VOC emissions from release agent and drying agent usage in the warm box core making operations have been included in the permit.

(h) The incorrect emission factors for the A-line pouring, A-line cooling, B-line cooling, and Floor cooling operations were used in the metallic HAP emission calculations in the Title V permit. The correct emission factors based on the emission factors for PM and the percent of PM that is HAP based on information from SPECIATE v 3.1 were used and the metallic HAP emissions were updated.

(i) Upon further review of the issued Title V permit, it was discovered by Weil-McLain that none of the potential HAP emissions generated from the use of the green molding sand in the A-Line and B-Line Molding operations at the Weil-McLain source have been accounted for in the source's permit to date. According to the published data in the 1994 Modern Casting report by Gary Mosher, the total quantity of HAPs generated from green sand molds is based on the seacoal content. Weil-McLain has determined that at most 1325 tons per year of seacoal must be reintroduced into the recycled green sand in order to produce the proper mold. Utilizing the data provided in the Modern Casting report, the HAP emissions generated from green sand at the A-Line and B-Line pouring, cooling and shakeout operations were calculated and are included on page 20 of Appendix A.

(j) Weil-McLain filed a petition with the Office of Environmental Adjudication on February 5, 2003 for an administrative review of their Part 70 Operating Permit T091-6295-00020, issued on December 30, 2002. The petition was filed as Cause No. 03-A-J-3013. A Joint Agreement Regarding Stay (Agreement) was entered into by Weil-McLain and IDEM on August 14, 2003. The changes to the permit included in the Agreement will be included in this permit modification. However, the catalyst usage limit for the No Bake core machine in pounds of catalyst per twelve (12) consecutive month period that was removed from Condition D.7.1 of the Part 70 permit in the Agreement will not be removed in this permit modification because it is necessary to ensure compliance with the VOC emission limit for the No Bake core machine to ensure that the requirements of 326 IAC 2-2 (PSD) do not apply. Additionally, because the portion of the catalyst limit that was in pound of VOC per ton of cores (or sand) has been removed from condition D.7.1 in the Agreement, the limit on sand throughput to the No Bake Sand Mixer, the No Bake core machine, and the No Bake line sand hopper is no longer necessary and will be removed from condition D.7.1.

In addition, the change to condition D.4.11(c), now re-numbered as D.4.13(c), that was included in the Agreement will not be revised in this permit modification because the revised wording is not clearly enforceable.

(k) The permit has been corrected to reflect that the preheater emissions and the emissions from the charging of metal into the preheater and the electric induction furnaces after the preheater are controlled by dust collector 39-DC-4. Weil-McLain completed stack testing for the melting and charging operations on December 9 and 10, 2005. The sampling equipment was not turned off while the furnace was being charged when testing was performed. As a result, the particulate emissions from the charging operations were also collected in the melting sample. The emission factors obtained from the test are as follows:

Charging Operations:

PM emission factor = 0.08 lb/ton (after control by dust collector 39-DC-4)
PM10 emission factor = 0.05 lb/ton (after control by dust collector 39-DC-4)

Melting and Furnace Charging Operations:

PM emission factor = 0.68 lb/ton (measured at the inlet to the dust collector)
PM10 emission factor = 0.53 lb/ton (measured at the inlet to the dust collector)

Additionally, it has been determined that the operation referred to as charge handling was not installed in 1991 but would have been an existing facility prior to 1991 since the source had a cupola furnace and melted metal prior to the 1991 modification which replaced the cupola with the four electric induction furnaces. Therefore, the charge handling operation would have only had an emission increase due to the metal throughput capacity being increased from 16 tons per hour to 20 tons per hour from the replacement of the cupola furnace. Using the AP-42 and FIRE emission factors for PM and PM10 for charge handling, this results in a PM and PM10 emissions increase from charge handling of 10.51 tons per year of PM and 6.31 tons per year of PM10.

As a result of this, the PSD minor PM and PM10 emission limits for the 1991 modification will be revised to subtract the PM and PM10 emissions increase from charge handling of 10.51 tons per year of PM and 6.31 tons per year of PM10 as well as the potential to emit of the preheater from the final limit. The limits will now apply to the four electric induction furnaces and charging of metal to the furnaces. Weil-McLain will use a lower annual metal throughput capacity of 50,000 tons per year for these operations. The machining operations will also be using this annual metal throughput limitation since these units have been limited to the amount of metal that could be charged at the facility. The PM and PM10 emission limits in condition D.1.1 will be revised to include the revised emission limits and the revised metal throughput limit.

The emission calculations in Appendix A have been updated using the emission factors obtained from the stack test. Since the charging of metal to the furnace is included in the emission factor for the electric induction furnaces, and the charging is controlled by dust collector 39-DC-4, an 80% control efficiency has been applied to PM and PM10 emissions from the furnaces based on information provided by Weil-McLain. The emission factors used to calculate uncontrolled PM and PM10 emissions from the charge handling operation are now based on AP-42 and FIRE emission factors. The charge handling operation which only includes the handling of the charge materials prior to the charging of the metal to the preheater, is considered to have no controls. A control efficiency of 90% has been applied to the preheater emissions based on information provided by Weil-McLain.

(l) Weil-McLain has requested that federally enforceable limits be added to the Part 70 permit to limit the source-wide potential to emit of any single HAP and of any combination of HAPs to less than 10 and 25 tons per year, respectively. Therefore, the source will become a minor source under section 112 of the Clean Air Act and the requirements of 40 CFR 63, Subpart EEEEE, NESHAP for Iron and Steel Foundries will not apply. Limits on HAP emissions have been added to the permit as necessary.

(m) In order to limit HAP emissions to below the major source threshold, Weil-McLain will accept the following annual throughput limits:

(1) Weil-McLain is accepting a usage limit of 40 tons of resin per year and 10 tons of catalyst per year for the No Bake core making operation.
(2) Weil-McLain is accepting a usage limit of 80 tons of resin per year and 10 tons of catalyst per year for the Cold Box core making operation.
(3) Weil-McLain is accepting a usage limit of 10 tons of catalyst per year for each of the three Warm Box core machines.
(4) Weil-McLain is accepting a limit of 50,000 tons per year of iron for the charge handling and melting operations.
(5) Weil-McLain is accepting a limit of iron poured for the A-Line of 35,000 tons per year.
(6) Weil-McLain is accepting a limit of iron poured for the B-Line of 10,000 tons per year.
(7) Weil-McLain is accepting a limit of iron poured for Floor Line of 5,000 tons per year.
(8) Weil-McLain is accepting a limit of seacoal reintroduced into the green sand system of 325 tons per year for the B-Line molds and 1000 tons per year for the A-Line molds.
(9) Weil-McLain is accepting a limit of 80 tons of resin and 10 tons of catalysts for the floor molding operation (High Speed Continuous Sand Mixer).

The HAP emission limits included in the permit are based on the above limited throughputs.

(n) Weil-McLain has requested to add three emergency generators to the Title V Permit. The new emergency generators, which qualify as insignificant activities, are as follows:

(1) Activities associated with emergencies, including the following:
(A) Emergency generators as follows:

(i) Diesel generators not exceeding one thousand six hundred (1,600) horsepower, including:

(a) One (1) O'Brien emergency generator rated at 1000KW, powered by a 1600 HP diesel engine.

(b) One (1) Kohler Line Melt holding furnace emergency generator rated at 750KW powered by one (1) 1170HP diesel engine.

(c) One (1) Hercules Line Melt furnace emergency generator rated at 55KW powered by one (1) 80 HP diesel engine.

(o) Weil-McLain has removed the boiler assembly operation out of the state of Indiana. The commercial boiler testing area was moved with assembly and is no longer performed in Michigan City. The following emission unit will be removed from the Part 70 permit:

(l) one (1) assembled boiler rating and certification operation, with a maximum boiler heat input rating of 7.216 million British thermal units (MMBtu) per hour, combusting natural gas, No. 2 distillate fuel oil, or propane.

(p) The maximum metal throughput capacity of the Chill Iron shot blast machine is incorrect in the Title V permit. The maximum metal throughput capacity should be listed as 3,500 pounds per hour and not 120 pounds per hour.

Weil-McLain was issued a Part 70 permit on December 30, 2002.

Existing Approvals

The source was issued a Part 70 Operating Permit (T091-6295-00020) on December 30, 2002. There have been no approvals issued to the source since issuance of the Part 70 Operating Permit.

Enforcement Issue

IDEM is aware that the stack test conducted on a representative electric induction furnace on December 10, 2005 yielded results showing a pound per ton of metal emission rate for PM and PM10 from the furnace that exceeds the allowable pound per ton of metal emission rates for the furnaces included in condition D.1.1 of the Part 70 permit. IDEM is reviewing this matter and has taken appropriate action.

IDEM is aware that CO emissions from the pouring, cooling and shakeout operations have not previously been accounted for. The A-Line Pouring, Cooling and Shakeout operations and the Floor Pouring, Cooling and Shakeout operations were installed prior to the 326 IAC 2-2 (PSD) rule applicability date of August 7, 1977, therefore, this will not affect the applicability of this rule. The B-Line Pouring, Cooling and Shakeout operations were installed after the effective date of 326 IAC 2-2 (PSD), however, limited CO emissions are less than the PSD significant modification threshold. IDEM is reviewing this matter and will take appropriate action.

Recommendation

The staff recommends to the Commissioner that the Significant Permit Modification 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 application for the purposes of this review was received on March 14, 2005. Additional information was received on May 10, 2005, May 23, 2005, March 6, 2006, March 16, 2006, August 29, 2006, and December 13, 2006.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 27).

Potential To Emit Before Controls (Modification)

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."

Pollutant	Potential To Emit (tons/year)
PM	1.57
PM-10	1.57
SO_2	1.46
VOC	1.78
CO	1,029.66
NO_x	22.09

Note: There have been no increases in the potential to emit of any of the above pollutants from the existing units associated with this modification since the source is not making any physical changes or changes in the method of operation to the existing emission units. Since issuance of the original Title V permit (T091-6295-00020), issued on December 30, 2002, it has been determined by IDEM, OAQ that the pouring, cooling, and shakeout operations are sources of CO emissions that were not previously identified. Therefore, the emissions above represent emissions from the new emergency generators and CO emissions from pouring, cooling and shakeout operations.

HAPs	Potential To Emit (tons/year)
Xylene	Greater than 10
Cumene	Greater than 10
Ethylene Glycol	Greater than 10
Phenol	Less than 10
TOTAL	Greater than 25

Note: These emissions represent additional potential uncontrolled HAP emissions from the no-bake catalyst used in the no bake core machine and the High Speed Continuous Sand Mixer that were unintentionally left out of the original Part 70 permit and from the re-formulated catalyst and additional solvents used in the Warm Box core machines.

Justification for Modification

The Title V permit is being modified through a Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-12(d)(1) because significant changes are being made to existing monitoring, recordkeeping and reporting conditions of the Part 70 permit. The installation of the three emergency generators does not require a source modification under 326 IAC 2-7-10.5 because they are insignificant activities pursuant to 326 IAC 2-7-1 (21) (G) (xxii) (BB) (bb).

County Attainment Status

The source is located in LaPorte County.

Pollutant	Status
PM-10	Attainment
PM-2.5	Attainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Basic Nonattainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. LaPorte 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) LaPorte County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability for the source section.

(c) LaPorte County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

(d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 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.

(e) Fugitive Emissions
Since this type of operation is one of the 28 listed source categories under 326 IAC 2-2 or 2-3, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD and Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	Greater than 250
PM-10	Greater than 250
SO_2	Less than 100
VOC	Greater than 250
CO	Greater than 100, Less than 250*
NOx	Less than 100

*Existing source CO emissions are greater than 100 tons per year with the additional CO emissions from pouring, cooling, and shakeout that were not previously identified.

(a) This existing source is a major stationary source because an attainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the 28 listed source categories and a nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.

(b) These emissions are based upon Part 70 Operating Permit (T091-6295-00020) on December 30, 2002.

Potential to Emit After Controls for the Source

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units at this source including all changes resulting from this modification.

	Potential to Emit (tons/year)							
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
Electric Induction Furnaces(1) - 1991	14.25	8.25	0.0	0.0	0.0	0.0	2.32 (Pb)	2.43
Charge Handling(1) - Prior to 1977	15.00	9.00	0.0	0.0	0.0	0.0	0.47 (Mn)	0.57
A-Line Pouring(1) - 1964	25.00	51.50	0.50	3.50	150.00	0.25	3.04 (Mn)	3.71
A-Line Cooling(1) – 1964	35.00	35.00	0.0	0.0		0.0		
A-Line Shakeout(1) – 1964	8.72	6.10	0.0	30.00		0.0		
A-Line Muller and Sand Handling – 1984	24.90	3.73	0.0	0.0	0.0	0.0	0.0	0.0
B-Line Pouring(2) - 1986	66.15	32.45	0.32	2.21	94.50	0.16	1.36 (Mn)	1.67
B-Line Cooling(2) – 1986	22.05	22.05	0.0	0.0		0.0		
B-Line Shakeout(2) – 1987	10.48	7.34	0.0	18.90		0.0		
B-Line Muller and Sand Handling - 1987	6.97	1.05	0.0	0.0	0.0	0.0	0.0	0.0
Floor Pouring - 1922	110.38	54.14	0.53	3.68	157.68	0.26	0.93 (Mn)	1.14
Floor Cooling - 1922	36.79	36.79	0.0	0.0		0.0		
Floor Shakeout - 1922	84.10	58.87	0.0	31.54		0.0		
Knockout Station - 1965	43.73	30.61	0.0	78.84	0.0	0.0		
A-Line, B-Line, and Floor Pouring, Cooling and Shakeout(3)	See above	See above	See above	See above	See above	See above	3.89 (Benzene)	3.89

Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
High Speed Continuous Sand Mixer and Sand Handling(4) - 2001	0.08	0.01	0.0	14.00	0.0	0.0	0.90 (Xylene)	0.90
Cold Box Core Machine - 1975	0.0	0.0	0.0	5.99	0.0	0.0	0.38 (Naphthalene)	0.40
Cold Box Sand Mixer and Sand Handling - 1975	23.55	3.53	0.0	0.0	0.0	0.0	0.0	0.00
No Bake Core Machine(5) - 1979	0.0	0.0	0.0	12.90	0.0	0.0	0.80 (Xylene)	0.80
No Bake Sand Mixer and Sand Handling - 1979	24.36	3.65	0.0	0.0	0.0	0.0	0.0	0.0
Warm Box Core Machines – 1971, 1976, and 1981	0.0	0.0	0.0	17.94	0.0	0.0	5.22 (Ethylene Glycol)	5.22
Warm Box Mixers and Sand Handling	20.30	3.05	0.0	0.0	0.0	0.0	0.0	0.0
Controlled Machining**(1) – 1987	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0
Uncontrolled Machining**(1) - 1987	0.25	0.11	0.0	0.0	0.0	0.0	0.0	0.0
Wheelabrator Shot Blast(6) - 1990	12.70	1.27	0.0	0.0	0.0	0.0	3.52 (Pb)	3.52
Chill Iron Shot Blast - 1972	2.59	0.26	0.0	0.0	0.0	0.0	0.20 (Pb)	0.20
Scrap Handling Crusher - 2001	3.31	0.33	0.0	0.0	0.0	0.0	0.0	0.0
Rotary Reclaimer - 2001	2.31	1.62	0.0	0.0	0.0	0.0	0.32 (Pb)	0.32
Raw Sand Storage Silo - 2001	0.84	0.13	0.0	0.0	0.0	0.0	0.0	0.0
Spent Sand Storage Silo - 2001	1.73	0.26	0.0	0.0	0.0	0.0	0.0	0.0
Sand & Metal Conveyor - 2001	15.91	2.39	0.0	0.0	0.0	0.0	0.0	0.0
Preheater - 1991	0.11	0.43	0.03	0.31	4.77	5.68	0.10 (Hexane)	0.11
Surface Coating - 1982	0.29	0.29	0.0	10.17	0.0	0.0	0.0	0.0
Cold Box Core Machine Afterburner** - 1975	0.01	0.05	0.0	0.03	0.52	0.61	0.01 (Hexane)	0.01
Unpaved Roads**	0.44	0.15	0.0	0.0	0.0	0.0	0.0	0.0
Existing Source Total Emissions	612.33	374.42	1.38	230.01	407.47	6.96	4.23 (Mn)	24.89
Emergency Generators(7)	1.57	1.57	1.46	1.78	4.76	22.09	0.0047 (Propylene)	0.012

Total Emissions	613.90	375.99	2.84	231.79	412.23	29.05	4.23 (Mn)	24.90

** These are insignificant activities.

(1) Emissions are after control where applicable and after a metal throughput limitation of 50,000 tons per year. Since metal throughput to the A-Line and the machining operations can not be greater than the throughput to the furnaces, the emissions for these operations are based on the limited metal throughput to the furnaces.

(2) Emissions are after control where applicable and after a metal throughput limitation of 31,500 tons per year.
Additional Note: The B-Line Molding operation replaced an existing floor molding operation in 1986 which had a maximum metal throughput of 70 tons/day. The net emissions increase of each regulated pollutant from this replacement, including the throughput limit listed above and the PM and PM10 emission limits on the B-Line Shakeout and B-Line Muller, plus potential emissions from the controlled and uncontrolled machining operations also installed in 1987, are less than the PSD significant modification thresholds, therefore, the requirements of 326 IAC 2-2 do not apply.

(3) Organic single HAP emissions from A-Line, B-Line and Floor Pouring, Cooling and Shakeout operations combined are limited to 3.89 tons/yr of benzene (worst case) and total organic HAP emissions from A-Line, B-Line and Floor Pouring, Cooling and Shakeout operations combined are limited to 3.89 tons/yr.

(4) Emissions are after control including resin and catalyst usage limitations for the High Speed Continuous Sand Mixer and a sand throughput limitation from the raw sand storage silo to the High Speed Continuous Sand Mixer to limit VOC emissions from the mixer below PSD significant thresholds and to render the requirements of 326 IAC 8-1-6 (BACT) not applicable for the mixer.

(5) Emissions after resin and catalyst usage limitations for the no bake core making operation to limit VOC emissions from all units installed in 1979 to less than the PSD significant threshold of 40 tons per year and to limit HAP emissions below major source thresholds.

(6) Emissions are after control where applicable and after a metal throughput limitation of 71,200 tons per year.

(7) Emissions from the emergency generator represent the only increase in emissions from this modification. Emissions of each pollutant are below the PSD and Emission Offset significant modification thresholds.

The modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

The modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this modification.

(b) On April 22, 2004, U.S. EPA promulgated a NESHAP for iron and steel foundries. The NESHAP, 40 CFR 63.7680 - 63.7762, Subpart EEEEE, applies to each new or existing iron and steel foundry that is a major source of HAPs. A major source of HAPs is a source that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAPs at a rate of 25 tons or more per year. The affected source covered by this rule is each new or existing iron and steel foundry and the rule covers emissions from metal melting furnaces, scrap preheaters, pouring areas, pouring stations, automated conveyor and pallet cooling lines, automated shakeout lines, and mold and core making lines. This rule also covers fugitive emissions from foundry operations. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart EEEEE on and after April 23, 2007, except as provided in paragraph (b) of 40 CFR 63.7682, or accept and meet an enforceable HAP emissions limit below the major source threshold prior to the compliance date of April 23, 2007.

The source has requested that enforceable HAP emission limits be included in the Part 70 permit to limit the potential to emit any single HAP to less than 10 tons per year and the potential to emit of any combination of HAPs to less than 25 tons per year. Therefore, this source will no longer be a major source of HAPs and the requirements of this rule will not be included in the Part 70 permit.

The metallic HAP limits that will be included in the Part 70 permit are as follows:

(1) Emissions of lead from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.32 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(2) Emissions of manganese from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 0.66 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(3) Emission of any combination of HAPs from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.43 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(4) Emissions of lead from the charge handling system shall not exceed 0.10 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(5) Emissions of manganese from the charge handling system shall not exceed 0.47 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(6) Emissions of any combination of HAPs from the charge handling system shall not exceed 0.57 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(7) Total emissions of lead from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(8) Total emissions of manganese from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.04 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(9) Total emissions of any combination of metal HAPs from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.71 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(10) Total emissions of lead from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 0.65 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(11) Total emissions of manganese from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(12) Total emissions of any combination of metal HAPs from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.67 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(13) Total emissions of lead from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.83 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(14) Total emissions of manganese from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.93 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(15) Total emissions of any combination of metal HAPs from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 1.14 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(16) Emissions of lead from the Wheelabrator shot blast machine shall not exceed 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(17) Emissions of manganese from the Wheelabrator shot blast machine shall not exceed 3.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(18) Emission of any combination of metal HAPs from the Wheelabrator shot blast machine 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(19) Emissions of lead from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(20) Emissions of manganese from the scrap handling rotary reclaimer shall not exceed 0.27 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(21) Emissions of any combination of metal HAPs from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

(22) Emissions of lead from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(23) Emissions of manganese from the Chill Iron shot blast machine shall not exceed 0.17 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(24) Emissions of any combination of metal HAPs from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

The above lead and manganese limits shall limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. The combined metal HAP limits above in conjunction with the combined organic HAP limits listed below will limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The organic HAP limits that will be included in the Part 70 permit are as follows:

(1) The total emissions of xylene from the No Bake core making operation shall not exceed 0.80 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(2) The total emissions of any combination of HAPs from the No Bake core making operation shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(3) The total emissions of ethylene glycol from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(4) The total emissions of phenol from the Warm Box core making operation shall not exceed 4.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(5) The total emissions of any combination of HAPs from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(6) The total emissions of xylene from the High Speed Continuous Sand Mixer shall not exceed 0.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(7) The total emissions of any combination of organic HAPs from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(8) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(9) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(10) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(11) Emissions of phenol from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(12) Emissions of benzene from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(13) Emissions of any combination of organic HAPs from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

The above organic HAP limits shall limit source-wide emissions of any single HAP to less than 10 tons per year. The combined organic HAP limits above in conjunction with the combined metallic HAP limits will limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

(c) On January 2, 2004, U.S. EPA promulgated a NESHAP for the surface coating of miscellaneous metal parts and products. The requirements of the NESHAP, 40 CFR 63.3880 - 63.3981, Subpart MMMM, Surface Coating of Miscellaneous Metal Parts and Products apply to an existing affected source, as defined in 40 CFR 63.3882, that uses 946 liters (250 gallons (gal)) per year, or more, of coatings that contain hazardous air pollutants (HAP) in the surface coating of miscellaneous metal parts and products that is located at a major source of emissions of HAP. Pursuant to 40 CFR 63.3881(b), coatings that meet the definition of non-HAP coating contained in 40 CFR 63.3981 do not need to be included in determining whether 946 liters (250 gal) per year, or more, of coatings are used in the surface coating of miscellaneous metal parts and products. The coatings now used in the one (1) paint spray booth (ID No. Spray Painting) and the dip tank (ID No. Dip Tank Painting), which have been in use since prior to the NESHAP compliance date of January 2, 2007, do not contain any HAPs because ethylene glycol monobutyl ether (2-Butoxyethanol) was de-listed as a HAP on November 29, 2004 by the EPA and there are no other HAPs contained in the coatings used. Therefore, the requirements of this rule are not included in the permit for the one (1) paint spray booth (ID No. Spray Painting) and the dip tank (ID No. Dip Tank Painting) because each facility uses only coatings, thinners and other additives, and cleaning materials that contain no organic HAP.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This existing source is a major stationary source under this rule because it is one of the 28 listed source categories and at least one attainment regulated pollutant is emitted at a rate of 100 tons per year. The only emissions increases from this modification are from the addition of the emergency generators. There have been no physical changes or changes in the method of operation to any of the existing units at this source; therefore, there were no increases in emissions from these units. The only changes in emissions from existing units were corrections to the previous emission calculations.

Since the potential to emit from the emergency generators are less than the PSD significant modification thresholds, this is not a major modification under this rule.

It has been determined by IDEM, OAQ that the pouring, cooling, and shakeout operations are sources of CO emissions that were not previously identified. Unrestricted CO emissions from the A-Line and Floor Pouring, Cooling and Shakeout operations are greater than 250 tons per year, however, these operations were installed prior to the August 7, 1977 applicability date of this rule, and therefore, they are not subject to the requirements of this rule. The source was already a major PSD source prior to the August 7, 1977 applicability date so these additional emissions do not change the date when this source became a major PSD source. Unrestricted CO emissions from the B-Line Pouring, Cooling and Shakeout operations, installed in a twelve month period from 1986 to 1987, are greater than the 100 tons per year significant modification threshold. Since the metal throughput to the B-Line Pouring, Cooling and Shakeout operations has already been limited to 31,500 tons per year to limit PM and PM10 emissions to render PSD not applicable and this limit will also limit CO emissions to less than 100 tons per year, an additional limit on CO emissions of 6.0 pounds per ton of metal will be added to the permit. This will limit CO emissions to 94.50 tons per year and will render the requirements of this rule not applicable.

Additionally, it has been determined that the operation referred to as charge handling was not installed in 1991 but would have been an existing facility prior to 1991 since the source had a cupola furnace and melted metal prior to the 1991 modification which replaced the cupola with the four electric induction furnaces. Therefore, the charge handling operation would have only had an emission increase due to the metal throughput capacity being increased from 16 tons per hour to 20 tons per hour in 1991. Using the AP-42 and FIRE emission factors for PM and PM10 for charge handling, this results in a PM and PM10 emissions increase from charge handling of 10.51 tons per year of PM and 6.31 tons per year of PM10.

As a result of this, the PSD minor PM and PM10 emission limits for the 1991 modification will be revised to subtract the PM and PM10 emissions increase from charge handling of 10.51 tons per year of PM and 6.31 tons per year of PM10 as well as the potential to emit of the preheater from the final limit. The limits will now apply to the four electric induction furnaces including charging of the metal to the furnaces. The revised limits are as follows:

(a) Total PM and PM10 emissions from melting and charging for the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), installed in 1991, shall not exceed 0.57 and 0.33 pound per ton of metal throughput, respectively.

(b) The throughput of metal to each of the following facilities shall not exceed 50,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month:

(1) all four (4) electric induction furnaces; and
(2) the electric holding furnace

Compliance with these emission limits and the metal throughput limit combined with potential emissions from the preheater, also installed in 1991, and the emissions increase from the charge handling operation due to the modification in 1991 will limit PM and PM10 emissions from the modification in 1991 to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable. Any emissions from the electric holding furnace are accounted for in the emissions from melting in the electric induction furnaces.

326 IAC 2-3 Emission Offset

LaPorte County has been designated as non-attainment for ozone under the 8-hour standard. This existing source is a major source under this rule because it has the potential to emit of VOC of greater than 100 tons per year. The only emissions increases from this modification are from the addition of the emergency generators. There have been no physical changes or changes in the method of operation to any of the existing units at this source; therefore, there were no increases in emissions from these units. The only changes in emissions from existing units were corrections to the previous emission calculations.

Since the potential to emit from the emergency generators are less than the Emission Offset significant modification thresholds, this is not a major modification under this rule.

326 IAC 2-6 (Emission Reporting)

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). The source also has potential to emit greater than or equal to 250 tons per year of VOC; therefore, an emission statement covering the previous calendar year must be submitted by July 1 annually. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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 forty percent (40%) 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 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2 (1), (2), or (3).

State Rule Applicability - Individual Facilities

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

This source will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Due to the correction to the maximum process weight rate of the Chill Iron shot blast machine, the allowable particulate emissions pursuant to this rule has changed. Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Chill Iron shot blast machine shall not exceed 5.96 pounds per hour when operating at a process weight rate of 1.75 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10\ P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The baghouse 8-DC-2 shall be in operation at all times the Chill Iron shot blast machine is in operation, in order to comply with this limit.

There are no other new state rules applicable as a result of this modification.

Compliance Requirements

Permits issued under 326 IAC 2-7 are 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.

There are no new compliance monitoring requirements applicable as a result of this modification.

Changes Proposed

The changes listed below have been made to the Part 70 Operating Permit (T091-6295-00020).

1. Section A.2(a) and (b) have been revised to reflect that the preheater and induction furnaces are also controlled by dust collector 39-DC-4 and A.2(c) has been revised to remove the reference to the dust collector. Section A.2(e) and (f) have been revised to identify the mold sand as green molding sand. Section A.2(h) is revised to correct the identification of the Floor Knockout operation. Section A.2 (p) and (q), now listed as (o) and (p), of the Part 70 permit have been revised to correct the identification of the core making operations. Also, the description for the assembled boiler rating and certification operation has been removed and the description for the Chill Iron shot blast machine has been corrected.

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

This stationary source consists of the following emission units and pollution control devices:

(a) one (1) natural gas fired preheater, installed in 1991, rated at 12.976 million (MM) British thermal units (Btu) per hour, with a maximum metal throughput of 20 tons per hour, ~~exhausting inside the building~~ **controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4)**;

(b) four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), each installed in 1991, each capable of melting a maximum of 5 tons per hour of metal, ~~all exhausting inside the building~~ **with emissions from metal charging for each furnace controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4)**;

(c) one (1) charge handling system, installed ~~in 1991~~ **prior to 1977**, processing a maximum of 20 tons of metal per hour~~, controlled by one (1) dust collector (ID No. 39-DC-4), exhausting through one (1) stack (ID No. 39-DC-4)~~ **exhausting inside the building**;

***

(e) one (1) mold making operation (ID No. A-Line Molding) consisting of the following:

(1) one (1) 250 ton capacity holding silo (ID No. A-Line Holding Silo), installed in 1984, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8), and one (1) 50 ton capacity bond silo, installed in 1984, controlled by one (1) bin vent;

(2) one (1) **green** sand muller (ID No. A-Line Muller), installed in 1984, with a maximum **green** mold sand throughput of 200 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

(3) one (1) metal pouring operation (ID No. A-Line Pouring), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through stack 36-E-12;

(4) one (1) metal cooling operation (ID No. A-Line Cooling), installed in 1964, with a maximum throughput of 24 tons per hour of molten metal, and a maximum throughput of 10 tons of core sand per hour, exhausting through exhaust fans 32-E-2 and 32-E-1; and

(5) one (1) mold and casting shakeout operation (ID No. A-Line Shakeout), installed in 1964, with a maximum metal casting throughput of 24 tons per hour, and a maximum throughput of 10 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-8), exhausting through one (1) stack (ID No. 36-1-DC-8);

(f) one (1) mold making operation (ID No. B-Line Molding) consisting of the following:

(1) one (1) 75 ton capacity holding silo (ID No. B-Line Holding Silo), installed in 1987, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7), and one (1) 50 ton capacity bond silo, installed in 1987, controlled by one (1) bin vent;

(2) one (1) **green** sand muller (ID No. B-Line Muller), installed in 1987, with a maximum **green** mold sand throughput of 100 tons per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(3) one (1) metal pouring operation (ID No. B-Line Pouring), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting through stack 36-E-5;

(4) one (1) metal cooling operation (ID No. B-Line Cooling), installed in 1986, with a maximum throughput of 9 tons per hour of molten metal, and a maximum throughput of 4 tons of core sand per hour, exhausting partially through stack 36-E-6; and

(5) one (1) mold shakeout operation (ID No. B-Line Shakeout), installed in 1987, with a maximum metal casting throughput of 9 tons per hour, and a maximum throughput of 4 tons of core sand per hour, controlled by one (1) baghouse (ID No. 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

***

(h) one (1) casting knockout station (ID **Floor** Knockout Station), installed in 1965, with a maximum throughput of 15 tons of iron castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building.

***

(j) one (1) Chill Iron shot blast machine (ID No. Chill Iron Shot Blast), installed in 1972, with a maximum throughput of ~~120~~ **3,500** pounds of castings per hour, controlled by one (1) baghouse (ID No. 8-DC-2), exhausting inside the building;

***

~~(l) one (1) assembled boiler rating and certification operation, with a maximum boiler heat input rating of 7.216 million British thermal units (MMBtu) per hour, combusting natural gas, No. 2 distillate fuel oil, or propane.~~

***

~~(p)~~**(o)** one ~~Isocure~~ **(1) Cold Box** core making operation consisting of the following:

(1) one (1) ~~Isocure~~ **Cold Box** sand mixer, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), exhausting through one (1) stack (ID No. 36-1-DC-7);

(2) one (1) ~~Isocure~~ **Cold Box** core machine, installed in 1975, with a maximum throughput of 5.8 tons per hour of sand, with VOC and HAP emissions controlled by one (1) natural gas fired afterburner (ID No. Afterburner J), rated at 1.4 MMBtu per hour, exhausting through one (1) stack (ID No. 37-1-E-2); and

(3) one (1) 10 ton capacity ~~Isocure~~ **Cold Box** line sand hopper and elevator, installed in 1975, with a maximum sand throughput of 5.8 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

~~(q)~~**(p)** one (1) ~~Pepset~~ **No Bake** core making operation consisting of the following:

(1) one (1) enclosed ~~Pepset~~ **No Bake** sand mixer, installed in 1979, consisting of the ~~Pepset~~ **No Bake** Large Core Mixer and the ~~Pepset~~ **No Bake** Small Core Mixer, with a maximum sand throughput of 6.0 tons per hour;

(2) one (1) ~~Pepset~~ **No Bake** core machine, installed in 1979, with a maximum throughput of 6.0 tons per hour of sand, exhausting inside the building; and

(3) one (1) 10 ton capacity ~~Pepset~~ **No Bake** line sand hopper, installed in 1979, with a maximum sand throughput of 6.0 tons per hour, controlled by one (1) baghouse (ID 36-1-DC-7), which exhausts through one (1) stack (ID No. 36-1-DC-7);

The equipment descriptions in sections D.2, D.3, D.4, D.5 and D.7 for the above facilities have also been revised as shown above. All references to Isocure and Pepset throughout the permit will also be revised accordingly.

2. A recent stack test conducted on a representative electric induction furnace on December 10, 2005 yielded results showing a pound per ton of metal emission rate for PM and PM10 from the furnace that exceeds the allowable pound per ton of metal emission rates for the furnaces included in condition D.1.1 of the original Part 70 permit. According to the metal throughput reported by Weil-McLain, although the pound per ton PM and PM10 emission rates were each greater than the allowable pound per ton emission rates in the permit, the actual PM and PM10 emissions were still less than 25 and 15 tons per year, respectively, based on the actual metal throughput to the furnaces. Therefore, since actual PM and PM10 emissions are less than 25 and 15 tons per year, respectively, condition D.1.1 has been revised to change the PM and PM10 pound per ton emission limits and the metal throughput limit while maintaining limited PM and PM10 emissions from the units installed in 1991 at less than 25 and 15 tons per year, respectively.

Also, the PSD minor PM and PM10 emission limits for the 1991 modification will be revised to subtract the PM and PM10 emissions increase from charge handling of 10.51 tons per year of PM and 6.31 tons per year of PM10 as well as the potential to emit of the preheater from the final limit as discussed under the 326 IAC 2-2 (PSD) rule applicability discussion of this document. The limits will now apply to the four electric induction furnaces and charging of metal to the furnaces. The revised limits are as follows:

D.1.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

(a) Total PM and PM10 emissions from **melting and charging for** the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4), installed in 1991, shall not exceed ~~0.45~~ **0.57** and ~~0.255~~ **0.33** pound per ton of metal throughput, respectively. ~~Total PM and PM10 emissions from the charge handling system, installed in 1991, shall not exceed 0.24 and 0.15 pound per ton of metal throughput, respectively.~~

(b) The throughput of metal to each of the following facilities shall not exceed ~~71,200~~ **50,000** tons per twelve (12) consecutive month period, with compliance determined at the end of each month:

(1) all four (4) electric induction furnaces; **and**

(2) the electric holding furnace~~; and~~

~~(3) the charge handling system~~

~~These~~ **Compliance with these** emission limits and the metal throughput limit combined with potential emissions from the preheater, also installed in 1991, **and the emissions increase from the charge handling operation due to the modification in 1991** ~~yield~~ **limits** PM and PM10 emissions ~~that are~~ **from the modification in 1991 to** less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ are not applicable. Any emissions from the electric holding furnace are accounted for in the emissions from melting in the electric induction furnaces.

3. Since the AP-42 emission factor for shakeout operations at gray iron foundries of 3.2 pounds PM per ton of metal is now being used to calculate the Floor Shakeout PM emissions instead of the alternate emission factor of 2.26 pounds PM per ton of metal, the testing requirement for the Floor Shakeout operation in condition D.4.5 is no longer necessary and has been removed from the permit. The Floor Shakeout operation will continue to comply with the particulate emission limit pursuant to 326 IAC 6-3-2 using the AP-42 emission factor. Condition D.4.5, now re-numbered D.4.7, is revised as follows:

D.4.~~5~~**7** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

During the period between 54 and 60 months after issuance of this permit, in order to demonstrate compliance with Conditions D.4.1 and D.4.2, the Permittee shall perform PM and PM-10 testing on each of the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station and the Wheelabrator shot blast machine, identified as 30-DC-6, 8-DC-2 and 36-DC-8, respectively, ~~and the Floor Shakeout operation~~ using methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

4. Since the High Speed Continuous Sand Mixer uses a catalyst, the PSD minor VOC limit in condition D.4.1 and the VOC limit in condition D.4.3 of the permit are revised to include catalyst usage in the VOC limit. Although the original limit was only based on resin usage, the source has stated that the actual VOC emissions based on both the actual resin and catalyst usages in the High Speed Continuous Sand Mixer have never exceeded 25 tons per year, therefore, conditions D.4.1 and D.4.3 are revised as follows:

D.4.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

(a) Total PM and PM10 emissions from the Wheelabrator shot blast machine, installed in 1990, shall not exceed 0.70 and 0.42 pound per ton of metal throughput, respectively.

(b) The throughput of metal to the Wheelabrator shot blast machine shall not exceed 71,200 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(c) The total PM and PM10 emissions from the High Speed Continuous Sand Mixer, constructed in 2001, and its associated sand hopper, constructed in 2001, that is controlled by the baghouse identified as 30-DC-6 that exhausts through stack ID No. 30-DC-6, shall not exceed 0.01 and 0.01 pound per ton of sand throughput, respectively.

(d) The throughput of sand to the High Speed Continuous Sand Mixer (ID Mixer), constructed in 2001, shall be limited to a maximum of 42,574 tons of sand per twelve (12) consecutive month period, with compliance determined at the end of each month.

(e) The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed ~~996,000~~ **471,789** pounds of resin per 12 consecutive month period, with compliance determined at the end of each month.

(f) The VOC emissions from the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 0.05 pound per pound of resin.

(g) Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

For the emission unit installed in 1990, **compliance with** the emission limits in paragraph (a) above and the metal throughput limit in paragraph (b) ~~yield~~ **limits** total PM and PM10 emissions ~~that are~~ **to** less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ are not applicable.

For the High Speed Continuous Sand Mixer, its associated hopper, and the indoor scrap handling system (listed in section D.6), all installed in 2001, **compliance with** the PM and PM10 emission limits in paragraph (c) above, the sand throughput limit in paragraph (d) above, and the resin **and catalyst** usage limit**s** and VOC emission limit in paragraphs (e)**,** ~~and~~ (f) **and (g)** above ~~yield~~ **limits** PM, PM10, and VOC emissions ~~that are~~ **to** less than 25, 15, and 40 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ are not applicable.

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable, the following conditions shall apply:

(a) The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed ~~996,000~~ **471,789** pounds of resin per 12 consecutive month period, with compliance determined at the end of each month.

(b) The VOC emissions from the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed 0.05 pound per pound of resin.

(c) Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

Compliance with t~~T~~he resin **and catalyst** usage limit**s** and the VOC emission limit in paragraphs (a)**,** ~~and~~ (b) **and (c)** above will limit VOC emissions from the High Speed Continuous Sand Mixer to less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

The Quarterly Report form for this limit in the Part 70 permit has also been revised to show the revised resin limit and to include the catalyst limit.

5. The correct emission factors based on the AP-42 emission factors for PM and the percent of PM that is HAP based on information from SPECIATE v 3.1 were used and the metal HAP emissions from the foundry operations were updated. Based on the updated emission factors, HAP emission limits have been added to the permit to limit the source-wide potential to emit of single and total HAPs to less than 10 and 25 tons per year, respectively. A new condition D.1.3 has been added to the permit to limit HAP emissions for the foundry operations as follows:

D.1.3 HAP Minor Limit

(a) Emissions of lead from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.32 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 0.66 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emission of any combination of HAPs from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.43 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the charge handling system shall not exceed 0.10 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the charge handling system shall not exceed 0.47 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emissions of any combination of HAPs from the charge handling system shall not exceed 0.57 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
Four (4) Electric Induction Furnaces	Lead	2.32
	Manganese	0.66
	Total Metal HAPs	2.43
Charge Handling	Lead	0.10
	Manganese	0.47
	Total Metal HAPs	0.57

Compliance with the emission limits in paragraphs (a), (b), (d), and (e) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (c) and (f) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The remaining conditions in section D.1 have been re-numbered accordingly. Condition D.1.4, now re-numbered as D.1.5, has been revised to require testing to demonstrate compliance with the metallic HAP emission limits and to correct the reference to the unit controlled by the dust collector 39-DC-4 as follows:

D.1.4**5** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 30 and 36 months after issuance of this permit, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM-10 testing on one (1) of the four (4) identical electric induction furnaces and the dust collector (ID No. 39-DC-4) controlling emissions from ~~charge handling~~ **the metal charging for each furnace** utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.1.3, the Permittee shall perform lead and manganese testing on one (1) of the four (4) electric induction furnaces utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Conditions D.1.5, now re-numbered D.1.6, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as shown below. Also, since the dust collector is required to comply with the applicable emission limits, it has been moved to the Compliance Determination section of D.1.

D.1.~~5~~**6** Particulate Matter (PM) **and HAPs**

In order to comply with conditions D.1.1 and D.1.2 **and to comply with the metallic HAP emission limits in condition D.1.3**, the dust collector for PM**,** ~~and~~ PM10 **and metallic HAP** control shall be in operation and control emissions from the ~~charge handling system~~ **metal charging for each electric induction furnace** at all times when the ~~charge handling system is~~ **electric induction furnaces are** in operation.

A new condition has been added to section D.1 to specify how compliance with the HAP limits in condition D.1.3 shall be determined. Condition D.1.10, now re-numbered as D.1.11, has been revised to include additional recordkeeping to demonstrate compliance with the HAP emission limits and condition D.1.11, now re-numbered as D.1.12, is revised to include additional reporting for the HAP limits as follows:

D.1.7 HAP Emissions

Compliance with the HAP limits in condition D.1.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FPb} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPb} = 0.0545 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(b) Lead Emissions from the charge handling operation (tons/yr) = EF_{CHPb} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHPb} = 0.00094 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(c) Manganese Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FMn} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FMn} = 0.02108 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(d) Manganese Emissions from the charge handling operation (tons/yr) = EF_{CHMn} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHMn} = 0.00755 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(e) Total Metal HAP Emissions from the four (4) electric induction furnaces (tons/yr) = EF_{FTM} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FTM} = 0.07764 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the four (4) electric induction furnaces (tons per twelve (12) consecutive month period)

(f) Total Metal HAP Emissions from the charge handling operation (tons/yr) = EF_{CHTM} (lb/ton) x M_{CH} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CHTM} = 0.00923 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CH} = total metal throughput to the charge handling operation (tons per twelve (12) consecutive month period)

(g) Upon IDEM approval of lead and manganese compliance stack test results on one (1) of the four (4) electric induction furnaces, the following shall apply:

(1) The lead and manganese emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{FPb} and EF_{FMn}.
(2) The total metal HAP emission factor in pound per ton that shall be used for the variable EF_{FTM} shall be the sum of the lead emission factor obtained from the stack test, the manganese emission factor obtained from the stack test and the remaining non-lead and non-manganese metal HAP emission factors used to calculate emissions.

D.1.~~10~~**11** Record Keeping Requirements

***

(d) To document compliance with condition D.1.3, the Permittee shall maintain records of the following:

(1) HAP stack test results for one (1) of the four (4) electric induction furnaces;
(2) HAP emission calculations performed using the equations in condition D.1.7; and
(3) HAP emissions in tons per year.

D.1.~~11~~**12** Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(b) **and Condition D.1.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.1.3,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

6. Additional organic HAP emissions were calculated from the A-Line, B-Line and Floor pouring, cooling and shakeout operations at this source based on resin usages in the core and mold making operations that provide the cores and molds that are used in the pouring, cooling, and shakeout operations using emission factors obtained from the 1994 Modern Casting article titled "Calculating Emission Factors for Pouring, Cooling and Shakeout" by Gary Mosher. Therefore, both metallic HAP and organic HAP emission limits have been added to the Part 70 permit for each of the pouring, cooling, and shakeout operations to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively.

HAP limits have been added to the Part 70 permit for the A-Line Pouring, Cooling and Shakeout operations to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.2.3 Metallic HAP Minor Limit

(a) Total emissions of lead from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.04 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.71 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
A-Line Pouring, Cooling and Shakeout	Lead	1.10
	Manganese	3.04
	Total Metal HAPs	3.71

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.2.4 Organic HAP Minor Limit

(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
A-Line and B-Line Pouring, Cooling and Shakeout	**Phenol**	**1.85**
	Benzene	**2.41**
	Total Organic HAPs	**2.41**

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other phenol and benzene limits included in this permit limit source-wide phenol emissions and source-wide benzene emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The remaining conditions in section D.2 have been re-numbered accordingly. Condition D.2.4, now re-numbered as D.2.6, has been revised to require testing to demonstrate compliance with the HAP emission limits as follows:

D.2.~~4~~**6** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 30 and 36 months after issuance of this permit, in order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform PM testing on the A-Line Pouring operation, and PM and PM-10 testing on the baghouse controlling the A-Line Shakeout operation, the A-Line Holding Silo, and the A-Line Muller, identified as 36-1-DC-8, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.2.4, the Permittee shall perform total organic HAP testing on the A-Line Pouring, A-Line Cooling, and A-Line Shakeout operations and total metal HAP testing on the A-Line Shakeout operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Conditions D.2.5, now re-numbered as D.2.7, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as follows:

D.2.~~5~~**7** Particulate Matter (PM) **and HAPs**

(a) In order to comply with Conditions D.2.1**,** ~~and~~ D.2.2, **and D.2.3,** the baghouse (ID 36-1-DC-8) for PM**,** ~~and~~ PM10**, and metallic HAP** control shall be in operation and control emissions from the A-Line Shakeout operation and the A-Line Holding Silo and Muller at all times that the A-Line Shakeout operation and the A-Line Holding Silo and Muller are in operation.

A new condition has been added to section D.2 to specify how compliance with the HAP limits in conditions D.2.3 and D.2.4 shall be determined. Condition D.2.10, now re-numbered D.2.12, is revised to include record keeping for the information to determine compliance with the HAP limits and condition D.2.11, now re-numbered D.2.13, is revised to include additional reporting for the HAP limits as follows:

D.2.8 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.2.3 shall be demonstrated using the following equations:

(1) Lead Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APPb} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACPb} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASPb} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{APPb} = 0.00385 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASPb} = 0.00134 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APMn} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACMn} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASMn} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{APMn} = 0.031 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASMn} = 0.0108 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APTM} (lb/ton) x M_{AP} (tons per twelve (12) consecutive month period)] + [EF_{ACTM} (lb/ton) x M_{AC} (tons per twelve (12) consecutive month period)] + [EF_{ASTM} (lb/ton) x M_{AS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{APTM} = 0.03788 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{AP} = total metal throughput to the A-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{ACTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AC} = total metal throughput to the A-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{ASTM} = 0.0132 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{AS} = total metal throughput to the A-Line Shakeout operation (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.2.4 shall be demonstrated using the following equations:

(1) Phenol Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{APh} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.131 ton per year phenol from the green sand molding operation for molds used in the A-Line

Where:
EF_{APh} = 0.0039 pound phenol per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{AB} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.611 ton per year benzene from the green sand molding operation for molds used in the A-Line

Where:
EF_{AB} = 0.00535 pound benzene per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the A-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{ATO} (lb/lb) x R_{CBA} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 1.076 tons per year from the green sand molding operation for molds used in the A-Line

Where:
EF_{ATO} = 0.01236 pound combined organic HAP per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBA} = total resin usage in the Cold Box core making operation for cores used in the A-Line (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of total metallic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations, the lead, manganese, and total metallic HAP emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{APPb}, EF_{ACPb}, EF_{ASPb}, EF_{APMn}, EF_{ACMn}, EF_{ASMn}, EF_{APTM}, EF_{ACTM}, and EF_{ASTM} as applicable.

(d) Upon IDEM approval of total organic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations, the phenol, benzene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{APh}, EF_{AB} and EF_{ATO}.

D.2.~~10~~**12** Record Keeping Requirements

***

(d) To document compliance with Condition D.2.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the A-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.2.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.2.4, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the A-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed using the equations in condition D.2.8(b); and
(4) Organic HAP emissions in tons per year.

***

D.2.~~11~~**13** Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1(b)**, D.2.3, and D.2.4, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.2.3 and D.2.4,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

7. HAP limits have been added to the Part 70 permit for the B-Line Pouring, Cooling and Shakeout operations to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.3.4 Metallic HAP Minor Limit

(a) Total emissions of lead from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 0.65 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.67 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
B-Line Pouring, Cooling and Shakeout	Lead	0.65
	Manganese	1.36
	Total Metal HAPs	1.67

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.3.5 Organic HAP Minor Limit

(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (lb/lb)
A-Line and B-Line Pouring, Cooling and Shakeout	Phenol	1.85
	Benzene	2.41
	Total Organic HAPs	2.41

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other phenol and benzene limits included in this permit limit source-wide phenol emissions and source-wide benzene emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The remaining conditions in section D.3 have been re-numbered accordingly. Condition D.3.5, now re-numbered D.3.7, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as follows:

D.3.~~5~~**7** Particulate Matter (PM) **and HAPs**

(a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse for PM and PM10 control shall be in operation and control emissions from the B-Line Shakeout operation and the B-Line Holding Silo and Muller at all times that the B-Line Shakeout operation and the B-Line Holding Silo and Muller are in operation.

(b) In order to comply with Condition D.3.4, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the B-Line Shakeout operation at all times that the B-Line Shakeout operation is in operation.

A new condition has been added to section D.3 to specify how compliance with the HAP limits in conditions D.3.4 and D.3.5 shall be determined. Paragraph (a) of condition D.3.10, now re-numbered D.3.12, is revised to include record keeping for the information to determine compliance with the HAP limits and condition D.3.11, now re-numbered D.3.13, is revised to include additional reporting for the HAP limits as follows:

D.3.8 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.3.4 shall be demonstrated using the following equations:

(1) Lead Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPPb} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCPb} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSPb} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{BPPb} = 0.01617 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{BCPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{BSPb} = 0.00256 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPMn} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCMn} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSMn} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{BPMn} = 0.1302 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{BCMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)

EF_{BSMn} = 0.0206 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPTM} (lb/ton) x M_{BP} (tons per twelve (12) consecutive month period)] + [EF_{BCTM} (lb/ton) x M_{BC} (tons per twelve (12) consecutive month period)] + [EF_{BSTM} (lb/ton) x M_{BS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{BPTM} = 0.1591 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BP} = total metal throughput to the B-Line Pouring operation (tons per twelve (12) consecutive month period)
EF_{BCTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BC} = total metal throughput to the B-Line Cooling operation (tons per twelve (12) consecutive month period)
EF_{BSTM} = 0.0252 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{BS} = total metal throughput to the B-Line Shakeout operation (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.3.5 shall be demonstrated using the following equations:

(1) Phenol Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BPh} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.043 ton per year from the green sand molding operation for molds used in the B-Line

Where:
EF_{BPh} = 0.0039 pound phenol per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BB} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.199 ton per year from the green sand molding operation for molds used in the B-Line

Where:
EF_{BB} = 0.00535 pound benzene per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)
R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the B-Line Pouring, Cooling, and Shakeout operations (tons/yr) = [EF_{BTO} (lb/lb) x R_{CBB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)] + 0.35 ton per year from the green sand molding operation for molds used in the B-Line

Where:

EF_{BTO} = 0.01236 pound combined organic HAP per pound of Cold Box resin used (or an emission factor determined from the most recent compliance stack test)

R_{CBB} = total resin usage in the Cold Box core making operation for cores used in the B-Line (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of total metallic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations listed in section D.2, the lead, manganese, and total metallic HAP emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{BPPb}, EF_{BCPb}, EF_{BSPb}, EF_{BPMn}, EF_{BCMn}, EF_{BSMn}, EF_{BPTM}, EF_{BCTM}, and EF_{BSTM} as applicable.

(d) Upon IDEM approval of total organic HAP compliance stack test results on the A-Line Pouring, Cooling and Shakeout operations listed in section D.2, the phenol, benzene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{BPh}, EF_{BB} and EF_{BTO}.

D.3.~~10~~**12** Record Keeping Requirements

***

(d) To document compliance with Condition D.3.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the B-Line Pouring, Cooling, and Shakeout operations for each month;
(2) Metallic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.3.8(a); and
(4) Metallic HAP emissions in tons per year.

(e) To document compliance with Condition D.3.5, the Permittee shall maintain records of the following:

(1) pounds of resin used in the Cold Box core making operation for cores used in the B-Line for each month;
(2) Organic HAP stack test results for the A-Line Pouring, Cooling, and Shakeout operations;
(3) Organic HAP emission calculations performed using the equations in condition D.3.8(b); and
(4) Organic HAP emissions in tons per year.

***

D.3.~~11~~**13** Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1(a) and (b)**,** ~~and~~ D.3.3(c)**, D.3.4 and D.3.5, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.3.4 and D.3.5,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

8. HAP limits have been added to the Part 70 permit for the Floor Pouring, Cooling and Shakeout operations and the Wheelabrator shot blaster to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.4.4 Metallic HAP Minor Limit

(a) Total emissions of lead from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.83 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.93 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 1.14 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the Wheelabrator shot blast machine shall not exceed 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the Wheelabrator shot blast machine shall not exceed 3.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emission of any combination of metal HAPs from the Wheelabrator shot blast machine 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Floor Pouring, Cooling, Shakeout and Knockout	Lead	0.83
	Manganese	0.93
	Total Metal HAPs	1.14
Wheelabrator Shot Blast Machine	Lead	3.52
	Manganese	3.00
	Total Metal HAPs	3.52

Compliance with the emission limits in paragraphs (a), (b), (d) and (e) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (c) and (f) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

D.4.5 Organic HAP Minor Limit

(a) The total emissions of xylene from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of any combination of organic HAPs from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of phenol from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of benzene from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of any combination of organic HAPs from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
Floor Pouring, Cooling and Shakeout	Phenol	1.48
	Benzene	1.48
	Total Organic HAPs	1.48
High Speed Continuous Sand Mixer	Xylene	0.90
	Total Organic HAPs	0.90

Compliance with the emission limits in paragraphs (a), (c), and (d) above in conjunction with the other phenol, benzene, and xylene limits included in this permit limit source-wide phenol, benzene, and xylene emissions to less than 10 tons per year, each. Compliance with the limits in paragraphs (b) and (e) above in conjunction with the other combined HAP emission limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The remaining conditions in section D.4 have been re-numbered accordingly. Condition D.4.5, now re-numbered as D.4.7, has been revise to require testing to demonstrate compliance with the organic HAP emission limits as follows:

D.4.~~5~~**7** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 54 and 60 months after issuance of this permit, in order to demonstrate compliance with Conditions D.4.1 and D.4.2, the Permittee shall perform PM and PM-10 testing on each of the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station and the Wheelabrator shot blast machine, identified as 30-DC-6, 8-DC-2 and 36-DC-8, respectively, using methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.4.5, the Permittee shall perform total organic HAP testing on the High Speed Continuous Sand Mixer utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing.

Conditions D.4.6, now re-numbered D.4.8, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as follows:

D.4.~~6~~**8** Particulate Matter (PM) **and HAPs**

(a) In order to comply with Conditions D.4.1 and D.4.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the High Speed Continuous Sand Mixer hopper, the **Floor** Knockout Station and the Wheelabrator shot blast machine at all times that the High Speed Continuous Sand Mixer hopper, the **Floor** Knockout Station and the Wheelabrator shot blast machine are in operation.

(b) In order to comply with Condition D.4.4, the baghouses for PM, PM10, and metallic HAP control shall be in operation and control emissions from the Floor Knockout Station and the Wheelabrator shot blast machine at all times that the Floor Knockout Station and the Wheelabrator shot blast machine are in operation.

A new condition has been added to section D.4 to specify how compliance with the HAP limits in conditions D.4.4 and D.4.5 shall be determined. Paragraph (b) of condition D.4.11, now re-numbered D.4.13, is revised to include record keeping for the information to determine compliance with the VOC limits in conditions D.4.1 and D.4.3. Additional recordkeeping requirements have also been added to condition D.4.11, now re-numbered D.4.13, to determine compliance with the HAP limits in conditions D.4.4 and D.4.5 and condition D.4.12, now re-numbered D.4.14, is revised to include additional reporting for the HAP limits as follows:

D.4.9 HAP Emissions

(a) Compliance with the metal HAP limits in condition D.4.4 shall be demonstrated using the following equations:

(1) Lead Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPPb} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCPb} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSPb} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKPb} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{FPPb} = 0.01617 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)
EF_{FCPb} = 0.00539 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)
EF_{FSPb} = 0.01232 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)
EF_{FKPb} = 0.0256 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(2) Manganese Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPMn} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCMn} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSMn} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKMn} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{FPMn} = 0.1302 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)

EF_{FCMn} = 0.0434 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)

EF_{FSMn} = 0.0992 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)

EF_{FKMn} = 0.0206 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(3) Total Metal HAP Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = [EF_{FPTM} (lb/ton) x M_{FP} (tons per twelve (12) consecutive month period)] + [EF_{FCTM} (lb/ton) x M_{FC} (tons per twelve (12) consecutive month period)] + [EF_{FSTM} (lb/ton) x M_{FS} (tons per twelve (12) consecutive month period)] + [EF_{FKTM} (lb/ton) x M_{FK} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{FPTM} = 0.1591 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FP} = total metal throughput to the Floor Pouring operation (tons per twelve (12) consecutive month period)

EF_{FCTM} = 0.053 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FC} = total metal throughput to the Floor Cooling operation (tons per twelve (12) consecutive month period)

EF_{FSTM} = 0.12122 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

M_{FS} = total metal throughput to the Floor Shakeout operation (tons per twelve (12) consecutive month period)

EF_{FKTM} = 0.0252 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)

EF_{FK} = total metal throughput to the Floor Knockout operation (tons per twelve (12) consecutive month period)

(4) Lead Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WPb} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WPb} = 0.00137 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(5) Manganese Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WMn} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WMn} = 0.0111 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(6) Total Metal HAP Emissions from the Wheelabrator shot blast machine (tons/yr) = EF_{WTM} (lb/ton) x M_W (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{WTM} = 0.0135 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_W = total metal throughput to the Wheelabrator shot blast machine (tons per twelve (12) consecutive month period)

(b) Compliance with the organic HAP limits in condition D.4.5 shall be demonstrated using the following equations:

(1) Phenol Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FPh} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPh} = 0.0039 pound phenol per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)
R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(2) Benzene Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FB} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FB} = 0.00535 pound benzene per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)

R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(3) Total Organic HAP Emissions from the Floor Pouring, Cooling, Shakeout, and Knockout operations (tons/yr) = EF_{FTO} (lb/lb) x R_{NB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{FTO} = 0.01236 pound combined organic HAP per pound of No Bake resin used (or an emission factor determined from the most recent compliance stack test)

R_{NB} = total resin usage in the No Bake core making operation and High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(4) Xylene Emissions from the High Speed Continuous Sand Mixer (tons/yr) = [EF_{MR1X} (lb/lb) x R_{MNB1} (pounds per twelve (12) consecutive month period)] + [EF_{MCX} (lb/lb) x C_{MNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{MR1X} = 0.001 pound xylene per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB1} = total No Bake Part I resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MCX} = 0.0489 pound xylene per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{MNB} = total No Bake catalyst usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(5) Total HAP Emissions from the High Speed Continuous Sand Mixer (tons/yr) = [EF_{MR1TO} (lb/lb) x R_{MNB1} (pounds per twelve (12) consecutive month period)] + [EF_{MR2TO} (lb/lb) x R_{MNB2} (pounds per twelve (12) consecutive month period)] + [EF_{MCTO} (lb/lb) x C_{MNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{MR1TO} = 0.0032 pound total organic HAPs per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB1} = total No Bake Part I resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MR2TO} = 0.002 pound total organic HAPs per pound of No Bake Part II resin used (or an emission factor determined from the most recent compliance stack test)

R_{MNB2} = total No Bake Part II resin usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

EF_{MCTO} = 0.0698 pound total organic HAPs per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{MNB} = total No Bake catalyst usage in the High Speed Continuous Sand Mixer (pounds per twelve (12) consecutive month period)

(c) Upon IDEM approval of any HAP compliance stack test results on the Floor Pouring, Cooling, Shakeout, or Knockout operations, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{FPPb}, EF_{FCPb}, EF_{FSPb}, EF_{FKPb}, EF_{FPMn}, EF_{FCMn}, EF_{FSMn}, EF_{FKMn}, EF_{FPTM}, EF_{FCTM}, EF_{FSTM}, EF_{FKTM}, EF_{FPh}, EF_{FB}, and EF_{FTO}, as applicable.

(d) Upon IDEM approval of any HAP compliance stack test results on the Wheelabrator Shot Blast machine, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{WPb}, EF_{WMn}, and EF_{WTM} as applicable.

(e) Upon IDEM approval of total organic HAP compliance stack test results on the High Speed Continuous Sand Mixer, the xylene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{MR1X}, EF_{MR1TO}, and EF_{MR2TO}.

D.4.~~11~~**13** Record Keeping Requirements

***

(b) To document compliance with Conditions D.4.1(e)**, D.4.1(g),** ~~and~~ D.4.3(a), **and D.4.3(c),** the Permittee shall maintain records of the resin **and catalyst** usage for the High Speed Continuous Sand Mixer for each month.

***

(g) To document compliance with Condition D.4.4, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the Floor Pouring, Floor Cooling, Floor Shakeout, and Floor Knockout operations for each month;
(2) tons of metal throughput to the Wheelabrator shot blast machine for each month;
(3) HAP stack test results for the Floor Pouring, Cooling, Shakeout, and Knockout operations or the Wheelabrator shot blast machine as applicable;
(4) Metallic HAP emission calculations performed using the equations in condition D.4.9(a); and
(5) Metallic HAP emissions in tons per year.

(h) To document compliance with Condition D.4.5, the Permittee shall maintain records of the following:

(1) pounds of Part I and Part II resin used in the No Bake core making operation and the High Speed Continuous Sand Mixer for each month;
(2) Organic HAP stack test results for the High Speed Continuous Sand Mixer;
(3) Organic HAP emission calculations performed using the equations in condition D.4.9(b); and
(4) Organic HAP emissions in tons per year.

D.4.~~12~~**14** Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.4.1(b), D.4.1(d), D.4.1(e), **D.4.1(g),** ~~and~~ D.4.3(a)**, D.4.3(c), D.4.4 and D.4.5, including supporting calculations and data used for determining compliance with the HAP emission limits in conditions D.4.4 and D.4.5,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

9. Condition D.5.2 has been removed from the Part 70 permit since the boiler rating and certification operation has been removed from the source as follows:

~~D.5.2 Particulate Matter Limitation (PM) [326 IAC 6-2-4]~~

~~Pursuant to 326 IAC 6-2-4(a) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (c)), particulate emissions from each of the boilers tested in the boiler rating and certification operation shall not exceed 0.6 pounds per MMBtu.~~

10. HAP limits have been added to the Part 70 permit for the Chill Iron shot blast machine to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.5.3 HAP Minor Limit

(a) Emissions of lead from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the Chill Iron shot blast machine shall not exceed 0.17 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of metal HAPs from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Chill Iron shot blast machine	Lead	0.20
	Manganese	0.17
	Total Metal HAPs	0.20

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

Condition D.5.5, now re-numbered D.5.6, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as follows:

D.5.~~5~~**6** Particulate Matter (PM) **and HAPs**

(a) In order to comply with condition**s** D.5.1(a) **and D.5.3**, the baghouse for PM **and metallic HAP** control shall be in operation and control emissions from the Chill Iron shot blast machine at all times that the Chill Iron shot blast machine is in operation.

***

A new condition has been added to section D.5 to specify how compliance with the HAP limits in condition D.5.3 shall be determined. Condition D.5.12, now re-numbered D.5.13, is revised to include record keeping for the information to determine compliance with the HAP limits and a new condition D.5.14 is added to include additional reporting for the HAP limits as follows:

D.5.8 HAP Emissions

Compliance with the HAP limits in condition D.5.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChPb} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{ChPb} = 0.0013 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(b) Manganese Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChMn} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{ChMn} = 0.0105 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(c) Total Metal HAP Emissions from the Chill Iron shot blast machine (tons/yr) = EF_{ChTM} (lb/ton) x M_{Ch} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{ChTM} = 0.0128 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{Ch} = total metal throughput to the Chill Iron shot blast machine (tons per twelve (12) consecutive month period)

(d) Upon IDEM approval of any HAP compliance stack test results on the Chill Iron Shot Blast machine, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{ChPb}, EF_{ChMn}, and EF_{ChTM} as applicable.

D.5.~~12~~**13** Record Keeping Requirement

***

(d) To document compliance with Condition D.5.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the Chill Iron shot blast machine for each month;
(2) HAP stack test results for the Chill Iron shot blast machine as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.5.8; and
(4) Metallic HAP emissions in tons per year.

***

D.5.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.5.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.5.3, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

11. HAP limits have been added to the Part 70 permit for the scrap handling rotary reclaimer to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.6.3 HAP Minor Limit

(a) Emissions of lead from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the scrap handling rotary reclaimer shall not exceed 0.27 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emissions of any combination of metal HAPs from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (ton/yr)
Scrap Handling Rotary Reclaimer	Lead	0.32
	Manganese	0.27
	Total Metal HAPs	0.32

Compliance with the emission limits in paragraphs (a) and (b) above in conjunction with the other lead and manganese limits included in this permit limit source-wide lead emissions and source-wide manganese emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above in conjunction with the other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

Conditions D.6.5, now re-numbered D.6.6, has been revised to require the controls to be in operation to comply with the metallic HAP limits above as follows:

D.6.~~5~~**6** Particulate Matter (PM) **and HAPs**

(a) In order to comply with Conditions D.6.1 and D.6.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer at all times that the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer are in operation.

(b) In order to comply with Condition D.6.3, the baghouse for PM, PM10 and metallic HAP control shall be in operation and control emissions from the indoor scrap handling operation at all times that the indoor scrap handling operation is in operation.

A new condition has been added to section D.6 to specify how compliance with the HAP limits in condition D.6.3 shall be determined. Condition D.6.10, now re-numbered D.6.11, is revised to include record keeping for the information to determine compliance with the HAP limits and condition D.6.11, now re-numbered D.6.12, is revised to include additional reporting for the HAP limits as follows:

D.6.7 HAP Emissions

Compliance with the HAP limits in condition D.6.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRPb} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{RRPb} = 0.00014 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(b) Manganese Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRMn} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{RRMn} = 0.0011 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(c) Total HAP Emissions from the scrap handling rotary reclaimer (tons/yr) = EF_{RRTM} (lb/ton) x M_{RR} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{RRTM} = 0.0013 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{RR} = total metal throughput to the scrap handling rotary reclaimer (tons per twelve (12) consecutive month period)

(d) Upon IDEM approval of any HAP compliance stack test results on the scrap handling rotary reclaimer, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{RRPb}, EF_{RRMn}, and EF_{RRTM} as applicable.

D.6.~~10~~**11** Record Keeping Requirement

***

(d) To document compliance with Condition D.6.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to the scrap handling rotary reclaimer for each month;
(2) HAP stack test results for the scrap handling rotary reclaimer as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.6.7; and
(4) Metallic HAP emissions in tons per year.

D.6.~~11~~**12** Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.6.1(b) **and D.6.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.6.3,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

12. HAP limits have been added to the Part 70 permit for the core and mold making operations to limit the potential to emit of single and total HAPs from the source to less than 10 and 25 tons per year, respectively, as follows:

D.7.3 HAP Minor Limit

(a) The total emissions of xylene from the No Bake core making operation shall not exceed 0.80 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of any combination of HAPs from the No Bake core making operation shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) The total emissions of ethylene glycol from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) The total emissions of phenol from the Warm Box core making operation shall not exceed 4.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) The total emissions of any combination of HAPs from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

A summary of these limits is included in the following table:

Emission Unit	Pollutant	Emission Limit (tons/yr)
No Bake Core Making	Xylene	0.80
	Total Organic HAPs	0.80
Warm Box Core Making	Ethylene glycol	5.22
	Phenol	4.03
	Total Organic HAPs	5.22

Compliance with the emission limits in paragraphs (a) and (d) above in conjunction with other xylene and phenol limits included in this permit limit source-wide xylene and phenol emissions to less than 10 tons per year, each. Compliance with the limit in paragraph (c) above limits source-wide ethylene glycol emissions to less than 10 tons per year. Compliance with the limits in paragraphs (b) and (e) above in conjunction with other combined HAP limits included in this permit limit source-wide emissions of any combination of HAPs to less than 25 tons per year.

The remaining conditions in section D.7 have been re-numbered accordingly. Condition D.7.4, now re-numbered as D.7.5, has been revised to require testing to demonstrate compliance with the HAP emission limits as follows:

D.7.**45** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

***

(b) Within 180 days after issuance of Significant Permit Modification No. 091-20949-00020, in order to demonstrate compliance with Condition D.7.3, the Permittee shall perform total organic HAP testing on the No Bake core making operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Testing is not required for the Warm Box core making operation because the only significant source of HAP emissions is the catalyst. HAP emissions from the catalyst are based on mass balance where the input of HAP is equal to the HAP emissions so no testing is necessary.

A new condition has been added to section D.7 to specify how compliance with the HAP limits in condition D.7.3 shall be determined. Condition D.7.10, now re-numbered D.7.11, is revised to include record keeping for the information to determine compliance with the HAP limits and condition D.7.11, now re-numbered D.7.12, is revised to include additional reporting for the HAP limits.

D.7.7 HAP Emissions

Compliance with the HAP limits in condition D.7.3 shall be demonstrated using the following equations:

(a) Xylene Emissions from the No Bake core making operation (tons/yr) = [EF_{NBR1X} (lb/lb) x R_{CNB1} (pounds per twelve (12) consecutive month period)] + [EF_{NBCX} (lb/lb) x C_{CNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{NBR1X} = 0.001 pound xylene per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB1} = total No Bake Part I resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBCX} = 0.0489 pound xylene per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{CNB} = total No Bake catalyst usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

(b) Total Organic HAP Emissions from the No Bake core making operation (tons/yr) = [EF_{NBR1TO} (lb/lb) x R_{CNB1} (pounds per twelve (12) consecutive month period)] + [EF_{NBR2TO} (lb/lb) x R_{CNB2} (pounds per twelve (12) consecutive month period)] + [EF_{NBCTO} (lb/lb) x C_{CNB} (pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:

EF_{NBR1TO} = 0.0032 pound total organic HAPs per pound of No Bake Part I resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB1} = total No Bake Part I resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBR2TO} = 0.002 pound total organic HAPs per pound of No Bake Part II resin used (or an emission factor determined from the most recent compliance stack test)

R_{CNB2} = total No Bake Part II resin usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

EF_{NBCTO} = 0.0698 pound total organic HAPs per pound of No Bake catalyst used (based on MSDS for catalyst)

C_{CNB} = total No Bake catalyst usage in the No Bake core making operation (pounds per twelve (12) consecutive month period)

(c) Ethylene Glycol Emissions from the Warm Box core making operation (tons/yr) = EF_{WBEG} (lb/lb) x C_{WB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{WBEG} = 0.08 pound ethylene glycol per pound of Warm Box catalyst used (based on MSDS for catalyst)

C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(d) Phenol Emissions from the Warm Box core making operation (tons/yr) = E_{WBPh} (lb/lb) x C_{WB} (pounds per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
E_{WBPh} = 0.06 pound phenol per pound of Warm Box catalyst used (based on MSDS for catalyst)
C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(e) Total HAP Emissions from the Warm Box core making operation (tons/yr) = [EF_{WBRTO} (lb/lb) x R_{WB} (pounds per twelve (12) consecutive month period)] + [EF_{WBCTO} (lb/lb) x C_{WB} pounds per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{WBRTO} = 0.00075 pound total organic HAPs per pound of Warm Box resin used
R_{WB} = total Warm Box resin usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)
EF_{WBCTO} = 0.14 pound total organic HAPs per pound of Warm Box catalyst used (based on MSDS for catalyst)
C_{WB} = total Warm Box catalyst usage in the Warm Box core making operation (pounds per twelve (12) consecutive month period)

(f) Upon IDEM approval of total organic HAP compliance stack test results on the No Bake core making operation, the xylene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{NBR1X}, EF_{NBR1TO}, and EF_{NBR2TO}.

D.7.~~10~~**11**Record Keeping Requirement

***

(b) To document compliance with Condition D.7.1(c), the Permittee shall maintain records of the resin and catalyst usage for the ~~Pepset~~ **No Bake** core machine for each month.

(c) To document compliance with Condition D.7.3, the Permittee shall maintain records of the following:

(1) pounds of combined catalyst and combined resin usage for the Warm Box core machines for each month;
(2) Organic HAP stack test results for the No Bake core making operation;
(3) Organic HAP emission calculations performed using the equations in condition D.7.7; and
(4) Organic HAP emissions in tons per year.

***

D.7.~~11~~**12** Reporting Requirements

A quarterly summary of the information to document compliance with Condition**s** D.7.1(a)**,** ~~and~~ D.7.1(c)**, and D.7.3, including supporting calculations and data used for determining compliance with the HAP emission limits in condition D.7.3,** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

13. The following Quarterly Report Forms have been added to or revised in the Part 70 permit as follows:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: four (4) electric induction furnaces, the electric holding furnace, and the charge handling system
Parameter: PM and PM10 emissions
Limit: The throughput of metal to each of the following facilities shall not exceed ~~71,200~~ **50,000** tons per twelve (12) consecutive month period**, with compliance determined at the end of each month**: (1) all four (4) electric induction furnaces; (2) the electric holding furnace; and (3) the charge handling system

YEAR:

Month	Metal Throughput This Month (tons)			Metal Throughput Previous 11 Months (tons)			12 Month Total Metal Throughput (tons)		
	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling	Electric Induction Furnaces	Electric Holding Furnace	Charge Handling

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations
Parameter: PM ~~and PM10~~ emissions
Limit: The throughput of metal to each of the B-Line Pouring, B-Line Cooling, and B-Line Shakeout operations shall not exceed 31,500 tons per twelve (12) consecutive month period.

YEAR:

Month	Metal Throughput This Month (tons)			Metal Throughput Previous 11 Months (tons)			12 Month Total Metal Throughput (tons)		
	B-Line Pouring	B-Line Cooling	B-Line Shakeout	B-Line Pouring	B-Line Cooling	B-Line Shakeout	B-Line Pouring	B-Line Cooling	B-Line Shakeout

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: High Speed Continuous Sand Mixer
Parameter: VOC emissions
Limit: **(a)** The resin usage for the High Speed Continuous Sand Mixer (ID Mixer) shall not exceed ~~996,000~~ **471,789** pounds of resin per 12 consecutive month period.
(b) **Catalyst usage for the High Speed Continuous Sand Mixer shall not exceed 26,211 pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.**

YEAR:

Month	Column 1		Column 2		Column 1 + Column 2	
	Resin Usage This Month (pounds)	**Catalyst Usage This Month (pounds)**	Resin Usage Previous 11 Months (pounds)	**Catalyst Usage Previous 11 Months (pounds)**	12 Month Total Resin Usage (pounds)	**12 Month Total Catalyst Usage (pounds)**

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: ~~Pepset~~ **No Bake** core machine
Parameter: VOC emissions
Limit: The resin usage for the ~~Pepset~~ **No Bake** core machine shall not exceed ~~829,838~~ **255,867** pounds of resin per 12 consecutive month period. Catalyst usage for the Pepset core machine shall not exceed ~~35,268~~ **63,967** pounds of VOC catalyst per 12 consecutive month period.

YEAR:

Month	Column 1		Column 2		Column 1 + Column 2	
	Resin Usage This Month (pounds)	Catalyst Usage This Month (pounds)	Resin Usage Previous 11 Months (pounds)	Catalyst Usage Previous 11 Months (pounds)	12 Month Total Resin Usage (pounds)	12 Month Total Catalyst Usage (pounds)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: four (4) electric induction furnaces
Parameter: Lead, manganese and total HAP emissions

Limit:
- **(a)** Emissions of lead from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.32 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- **(b)** Emissions of manganese from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 0.66 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
- **(c)** Emission of any combination of HAPs from the four (4) electric induction furnaces (ID Nos. 1, 2, 3, and 4) shall not exceed 2.43 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.1.7(a), (c), and (e). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: charge handling
Parameter: Lead, manganese and total HAP emissions
Limit:
(a) Emissions of lead from the charge handling system shall not exceed 0.10 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the charge handling system shall not exceed 0.47 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of HAPs from the charge handling system shall not exceed 0.57 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.1.7(b), (d), and (f). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: A-Line Pouring, Cooling, and Shakeout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Total emissions of lead from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Total emissions of manganese from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.04 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Total emissions of any combination of metal HAPs from the A-Line Pouring, Cooling, and Shakeout operations shall not exceed 3.71 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.2.8(a). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: A-Line and B-Line Pouring, Cooling, and Shakeout operations
Parameter: Phenol, benzene, and total organic HAP emissions
Limit:
(a) Emissions of phenol from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 1.85 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of benzene from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of organic HAPs from the A-Line Pouring, Cooling and Shakeout operations (listed in section D.2) and the B-Line Pouring, Cooling and Shakeout operations (listed in section D.3) combined shall not exceed 2.41 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.2.8(b) and D.3.8(b). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Phenol Emissions This Month (tons)	Benzene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Phenol Emissions Previous 11 Months (tons)	Benzene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: B-Line Pouring, Cooling, and Shakeout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Total emissions of lead from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 0.65 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Total emissions of manganese from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Total emissions of any combination of metal HAPs from the B-Line Pouring, Cooling, and Shakeout operations shall not exceed 1.67 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.3.8(a). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Floor Pouring, Cooling, Shakeout, and Knockout operations
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Total emissions of lead from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.83 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Total emissions of manganese from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 0.93 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Total emissions of any combination of metal HAPs from the Floor Pouring, Cooling, Shakeout, and Knockout operations shall not exceed 1.14 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.4.9(a)(1) through (3). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Floor Pouring, Cooling, Shakeout, and Knockout operations
Parameter: Phenol, benzene, and total organic HAP emissions
Limit: (a) Emissions of phenol from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of benzene from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of organic HAPs from the Floor Pouring, Cooling and Shakeout operations combined shall not exceed 1.48 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.4.9(b)(1) through (3). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Phenol Emissions This Month (tons)	Benzene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Phenol Emissions Previous 11 Months (tons)	Benzene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Wheelabrator shot blast machine
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the Wheelabrator shot blast machine shall not exceed 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the Wheelabrator shot blast machine shall not exceed 3.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emission of any combination of metal HAPs from the Wheelabrator shot blast machine 3.52 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.4.9(a)(4) through (6). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: High Speed Continuous Sand Mixer
Parameter: Xylene and total organic HAP emissions
Limit: (a) The total emissions of xylene from the High Speed Continuous Sand Mixer shall not exceed 0.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) The total emissions of any combination of organic HAPs from the High Speed Continuous Sand Mixer shall not exceed 0.90 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.4.9(b)(4) and (5). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + Column 2a	Column 1b + Column 2b
	Xylene Emissions This Month (tons)	Total Organic HAP Emissions This Month (tons)	Xylene Emissions Previous 11 Months (tons)	Total Organic HAP Emissions Previous 11 Months (tons)	12 Month Total Xylene Emissions (tons)	12 Month Total Organic HAP Emissions (tons)

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Chill Iron shot blast machine
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the Chill Iron shot blast machine shall not exceed 0.17 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of metal HAPs from the Chill Iron shot blast machine shall not exceed 0.20 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.5.9. Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: scrap handling rotary reclaimer
Parameter: Lead, manganese and total metal HAP emissions
Limit:
(a) Emissions of lead from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the scrap handling rotary reclaimer shall not exceed 0.27 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of metal HAPs from the scrap handling rotary reclaimer shall not exceed 0.32 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.6.7. Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Lead Emissions This Month (tons)	Manganese Emissions This Month (tons)	Total Metal HAP Emissions This Month (tons)	Lead Emissions Previous 11 Months (tons)	Manganese Emissions Previous 11 Months (tons)	Total Metal HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Lead Emissions (tons)	12 Month Total Mn Emissions (tons)	12 Month Total Metal HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: No Bake core making operation
Parameter: Xylene and total HAP emissions
Limit: (a) The total emissions of xylene from the No Bake core making operation shall not exceed 0.80 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) The total emissions of any combination of HAPs from the No Bake core making operation shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.7.7(1) and (2). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + Column 2a	Column 1b + Column 2b
	Xylene Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Xylene Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)	12 Month Total Xylene Emissions (tons)	12 Month Total HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Weil-McLain
Source Address: 500 Blaine Street, Michigan City, Indiana 46360
Mailing Address: 500 Blaine Street, Michigan City, Indiana 46360-2388
Part 70 Permit No.: T091-6295-00020
Facility: Warm Box core making operation
Parameter: Ethylene glycol, phenol, and total HAP emissions

Limit:
(a) The total emissions of ethylene glycol from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) The total emissions of phenol from the Warm Box core making operation shall not exceed 4.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) The total emissions of any combination of HAPs from the Warm Box core making operation shall not exceed 5.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.7.7(3) through (5). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 2a	Column 2b	Column 2c
	Ethylene glycol Emissions This Month (tons)	Phenol Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Ethylene glycol Emissions Previous 11 Months (tons)	Phenol Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

This Part 70 Operating Permit Quarterly Report consists of 2 pages.

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c
	12 Month Total Ethylene glycol Emissions (tons)	12 Month Total Phenol Emissions (tons)	12 Month Total HAP Emissions (tons)

9 **No deviation occurred in this quarter.**

9 **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

14. Pursuant to the Joint Agreement Regarding Stay (Agreement) that was issued to Weil-McLain by IDEM's Office of Environmental Adjudication on August 14, 2003, IDEM, OAQ has removed condition D.7.1(e) and the PM10 emission limits since PM10 emissions were not regulated under PSD until after 1987. However, the catalyst usage limit for the no bake core machine in pounds of catalyst per twelve (12) consecutive month period that was removed from Condition D.7.1 of the Part 70 permit in the Agreement will not be removed from the condition in this permit modification because it is 100% VOC by weight and it is necessary to ensure compliance with the VOC emission limit for the no bake core machine to ensure that the requirements of 326 IAC 2-2 (PSD) do not apply. Also, due to changes in the maximum resin and catalyst content of the no bake core making process, the resin and catalyst usage limitations will be revised to be consistent with the current operation while maintaining the VOC emission limit of 38.38 tons per year for the no bake core making process. Additionally, because the portion of the catalyst limit that was in pound of VOC per ton of cores (or sand) has been removed from condition D.7.1 in the Agreement, the limit on sand throughput to the no bake sand mixer, the no bake core machine, and the no bake line sand hopper is no longer necessary and will be removed from condition D.7.1. Condition D.7.1 is revised as follows:

D.7.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

~~(a) The sand throughput to each of the Pepset Sand Mixer, the Pepset core machine, and the Pepset line sand hopper, all installed in 1979, shall not exceed 16,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~(b)~~**(a)** Total PM ~~and PM10~~ emissions from the **baghouse (36-1-DC-7) controlling PM emissions from the** ~~Pepset~~ **No Bake** line sand hopper installed in 1979, shall not exceed ~~5.7 and 3.4~~ **0.28** pounds per hour~~, respectively~~. The baghouse (36-1-DC-7) shall be in operation at all times that the ~~Pepset~~ **No Bake** line sand hopper is in operation and shall maintain a minimum ~~overall control~~ **capture** efficiency of ~~74.3~~**75**% in order to comply with this limit. **This PM limit and associated capture efficiency requirement in conjunction with the fugitive PM emissions from the No Bake line sand hopper will limit emissions from the No Bake line sand hopper to less than 25 tons per year.**

~~(c)~~**(b)** The resin usage for the ~~Pepset~~ **No Bake** core machine shall not exceed ~~829,838~~ **255,867** pounds of resin per 12 consecutive month period, with compliance determined at the end of each month. Catalyst usage for the ~~Pepset~~ **No Bake** core machine shall not exceed ~~35,268~~ **63,967** pounds of VOC catalyst per 12 consecutive month period, with compliance determined at the end of each month.

~~(d)~~**(c)** The VOC emissions from resin usage in the ~~Pepset~~ **No Bake** core machine shall not exceed 0.05 pound per pound of resin.

~~(e) The VOC emissions from catalyst usage in the Pepset core machine shall not exceed 1.53 pounds per ton of cores.~~

Compliance with the ~~This sand throughput limit for the Pepset Sand Mixer, the Pepset core machine, and the Pepset line sand hopper, the~~ PM ~~and PM10~~ emission limit~~s~~, the resin and catalyst usage limits and the VOC emission limit~~s~~ for the ~~Pepset~~ **No Bake resins** ~~core machine~~ will limit total VOC **and**~~,~~ PM~~, and PM10~~ emissions from all emission units installed in 1979 to less than 40 **and**~~,~~ 25~~, and 15~~ tons per year, respectively, so that the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ do not apply.

15. Pursuant to the Agreement that was issued to Weil-McLain by IDEM's Office of Environmental Adjudication on August 14, 2003, the PM10 emission limits have also been removed from conditions D.2.1 and D.3.1 since PM10 emissions were not regulated under PSD until after 1987. The references to PM10 will also be removed from conditions D.2.5, now re-numbered D.2.7, D.3.5, now re-numbered D.3.7, and D.7.5, now re-numbered D.7.6, and the Quarterly Reporting Forms as needed. Also, condition D.3.1 has been revised to include the CO emission limit to render PSD not applicable. Condition D.3.3 has also been updated.

The revisions to D.2.1, D.2.5, now re-numbered D.2.7, D.3.1, D.3.5, now re-numbered D.3.7, and D.7.5, now re-numbered D.7.6, are as follows:

D.2.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

(a) Total PM ~~and PM10~~ emissions from the A-Line Muller and A-Line Holding Silo, both installed in 1984, shall not exceed 0.107 ~~and 0.064~~ pound per ton of sand throughput~~, respectively~~.

(b) …

Compliance with this ~~The~~ emission limit~~s~~ and the sand throughput limit, ~~yield~~ **limits** PM ~~and PM10~~ emissions ~~that are~~ **to** less than 25 ~~and 15~~ tons per year~~, respectively~~. Therefore, the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ are not applicable.

D.2.~~5~~**7** Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.2.1 and D.2.2, the baghouse (ID 36-1-DC-8) for PM ~~and PM10~~ control shall be in operation and control emissions from the A-Line Shakeout operation and the A-Line Holding Silo and Muller at all times that the A-Line Shakeout operation and the A-Line Holding Silo and Muller are in operation.

***

D.3.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

(a) …

(b) …

(c) Total PM ~~and PM10~~ emissions from the baghouse (36-1-DC-7) controlling the B-Line Shakeout operation, the B-Line Muller, and the B-Line Holding Silo shall not exceed 0.37 ~~and 0.13~~ pound per ton of ~~combined~~ metal and sand throughput~~, respectively~~.

(d) Total CO emissions from the B-Line Pouring, B-Line Cooling and B-Line Shakeout operations shall not exceed 6.0 pounds per ton of metal throughput.

Compliance with t~~T~~he metal throughput limit, the sand throughput limit, and the PM ~~and PM10~~ emission limit~~s~~, when combined with the emission~~s~~ reductions from the removal of an existing floor molding operation in 1986, ~~yield~~ **limits** PM ~~and PM10~~ emissions ~~that are~~ **to** less than 25 ~~and 15~~ tons per year~~, respectively~~. **Compliance with the metal throughput limit and the CO emission limit shall limit CO emissions from the B-Line Pouring, Cooling and Shakeout operations installed in the twelve month period from 1986 to 1987 to less than 100 tons per year.** Therefore, the requirements of 326 IAC 2-2 (PSD) ~~and 40 CFR 52.21~~ are not applicable.

D.3.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

(a) VOC emissions from the B-Line Pouring operation shall not exceed 0.14 pounds of VOC per ton of metal charged;

(b) VOC emissions from the B-Line Shakeout operation shall not exceed 1.2 pounds of VOC per ton of metal charged;

(c) The throughput of metal to each of the B-Line Pouring and B-Line Shakeout operations shall not exceed 31,500 tons per twelve (12) consecutive month period.

Compliance with t~~T~~he metal throughput limit and the VOC emission limits ~~yield~~ **shall limit** VOC emissions ~~that are~~ **to** less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

D.3.~~5~~**7** Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse for PM ~~and PM10~~ control shall be in operation and control emissions from the B-Line Shakeout operation and the B-Line Holding Silo and Muller at all times that the B-Line Shakeout operation and the B-Line Holding Silo and Muller are in operation.

***

D.7.~~5~~**6** Particulate Matter (PM)

In order to comply with Conditions D.7.1 and D.7.2, the baghouse for PM ~~and PM10~~ control shall be in operation and control emissions from the ~~Isocure~~ **Cold Box** Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers, at all times that the ~~Isocure~~ **Cold Box** Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers are in operation.

16. Conditions D.2.4, now re-numbered D.2.6, and D.7.4, now re-numbered D.7.5, have been further revised based on the removal of the PM10 emission limits shown above. IDEM, OAQ has deleted condition D.7.4(b) pursuant to the Agreement.

D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between 30 and 36 months after issuance of this permit, in order to demonstrate compliance with Condition~~s D.2.1 and~~ D.2.2, the Permittee shall perform PM testing on the A-Line Pouring operation, ~~and PM and PM-10 testing on~~ the baghouse controlling the A-Line Shakeout operation, the A-Line Holding Silo, and the A-Line Muller, identified as 36-1-DC-8, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. ~~PM-10 includes filterable and condensible PM-10.~~ Testing shall be conducted in accordance with Section C- Performance Testing.

***

D.7.~~4~~**5** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

~~(a) During the period within 60 days after the baghouse is installed and operational or within 180 days after Part 70 permit issuance, whichever is later, i~~**I**n order to demonstrate compliance with Conditions D.7.1 and D.7.2, the Permittee shall perform PM ~~and PM-10~~ testing on the baghouse identified as 36-1-DC-7, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. ~~PM-10 includes filterable and condensible PM-10.~~ Testing shall be conducted in accordance with Section C- Performance Testing.

~~(b) During the period within 180 days after issuance of this permit, in order to demonstrate the overall control efficiency, the Permittee shall perform VOC testing on Afterburner J for the Cold box core machine utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.~~

17. The address to submit information to the IDEM, OAQ has been changed and has been revised throughout the permit. The mailing address will be revised as follows:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue~~, P.O. Box 6015~~
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

18. The source location attainment status and the source status under Section 112 of the Clean Air Act have been updated in section A.1. Additionally, the identification of the responsible official has been removed from section A.1 because it has been determined by IDEM that this information is not necessary to include in the permit and will reduce the need for administrative amendments in the case when the responsible official changes.

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 gray iron foundry producing gray iron boilers.

~~Responsible Official:~~	~~Robert Grussing, President~~
Source Address:	500 Blaine Street, Michigan City, Indiana 46360
Mailing Address:	500 Blaine Street, Michigan City, Indiana 46360-2388
General Source Phone Number:	219-879-6561
SIC Code:	3321
County Location:	LaPorte
Source Location Status:	**Nonattainment for ozone under the 8-hour standard** Attainment for all **other** criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD **and Emission Offset** Rules; ~~Major~~ **Minor** Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

19. Upon further review, IDEM has decided to include updates to further address and clarify the permit term and the term of the conditions. This includes the addition of the condition: Term of Conditions [326 IAC 2-1.1-9.5] and changes to the following conditions: Permit Term, Prior Permits Superseded, Termination of Right to Operate, and Permit Renewal.

20. The duty to supplement an application is not an ongoing requirement after the permit is issued; therefore, (a) has been removed from B.7 Duty to Supplement and Provide Information.

21. OAQ has decided to move the provision that is required by 326 IAC 2-7-5(6) from B.8 to the front of the permit. Therefore, condition B.8 has been removed from the permit and the following paragraph was added to the cover page of the Part 70 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.

22. In IDEM's Nonrule Policy Document, a table is a given as an example for how sources can submit annual compliance certifications. B.10 Annual Compliance Certification, now re-numbered B.9, is being revised to remove "in letter form" so that it does not contradict the guidance.

23. IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Section B – Preventive Maintenance and has amended the Section B – Emergency Provisions condition. Also, the phone number and the fax number listed in Emergency Provisions has been changed so that the OAQ's receptionist number is listed and the fax number for the compliance branch is listed.

24. The word "in" will be removed from the second sentence of condition B.13, now re-numbered B.12, to be consistent with 326 IAC 2-7-15(a).

25. IDEM has clarified the Section B Operational Flexibility condition.

26. B.21 has been updated to include a new (b) concerning modifications to a major source. This is a change due to the NSR reform; IDEM wants sources to certify in their ACC if they make changes without notice.

27. For clarity, additional rule cites have been added to B.22 Inspection and Entry.

28. The section's name that collects operating fees has changed; this has been updated in B.24 Annual Fee Payment. The most current name is the Billing, Licensing, and Training Section.

29. 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, a condition reflecting this rule will be incorporated into the permit.

30. The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Condition C.1 has been revised to remove (a) which contained these requirements, and Condition D.5.1(b) which contained these requirements has been removed. Paragraph (b) of condition D.5.5, now re-numbered D.5.6, will be removed, and since the requirements of the 326 IAC 6-3-2(d) that were effective June 12, 2002 are now federally enforceable, the last statement from C.1 has been removed. A new condition D.5.4 has been added to include the applicable requirements of 326 IAC 6-3-2 for the paint spray booth. Also, the allowable particulate emission rate for the Chill Iron shot blast machine has been revised to reflect the correct process weight rate.

D.5.1 Particulate [326 IAC 6-3-2]~~[40 CFR 52 Subpart P]~~

~~(a)~~ Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Chill Iron shot blast machine shall not exceed ~~0.62~~ **5.96** pound**s** per hour when operating at a process weight rate of ~~120~~ **3,500** pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

~~(b) Pursuant to 40 CFR 52 Subpart P, the PM from the one (1) paint spray booth shall not exceed the pound per hour emission rate established as E in the following formula:~~

~~Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

~~$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and~~
~~P = process weight rate in tons per hour~~

D.5.4 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the paint spray booth shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.5.~~5~~**6** Particulate Matter (PM) and HAPs

(a) In order to comply with condition D.5.1~~(a)~~ and D.5.3, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the Chill Iron shot blast machine at all times that the Chill Iron shot blast machine is in operation.

~~(b) In order to comply with condition D.5.1(b), the dry filters for PM control shall be in place and control emissions from the paint spray booth at all times when the paint spray booth is in operation.~~

31. Condition C.4 has been revised to remove the statement that 326 IAC 9-1-2 is not federally enforceable. 326 IAC 9-1 is now SIP approved and is therefore federally enforceable.

32. Conditions D.1.5, now re-numbered D.1.6, D.2.5, now re-numbered D.2.7, D.3.5, now re-numbered D.3.7, D.4.6, now re-numbered D.4.8, D.5.5, now re-numbered D.5.6, D.6.5, now re-numbered D.6.6, and D.7.5, now re-numbered D.7.6, include the same requirement (to operate the control equipment at all times) that is in C.6 Operation of Equipment. It has been decided that it is best to have this requirement under compliance determination in the specific D conditions, and remove C.6.

33. Condition C.7, Asbestos Abatement Projects, has been revised to clarify that the requirement to have an Indiana Accredited Asbestos inspector is not federally enforceable.

34. Condition C.12, has been revised. 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.

35. Condition C.14 Risk Management Plan has been revised so that it is more straightforward, and the condition requires the source to comply with the applicable requirements of 40 CFR 68 if a regulated substance is present at a source in more than a threshold quantity.

36. 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 condition C.15 was revised as described above.

37. In order to clarify which documents need to be certified by the responsible official, condition C.16, Actions Related to Noncompliance Demonstrated by a Stack Test, has been updated.

38. Revisions were made to the Emission Statement condition C.17 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.

39. The Section C recordkeeping and reporting requirements have been revised to include new requirements for major NSR sources.

40. It is no longer necessary to have C.21 Application Requirements for Section 112(j) in any permits; therefore, this condition is being removed from the permit.

~~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]~~

~~This permit 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.~~

~~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 Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]~~

~~(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:~~

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

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

~~(b) 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.~~

~~(c) 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 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]~~

~~(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:~~

~~(1) Enforcement action;~~
~~(2) Permit termination, revocation and reissuance, or modification; or~~
~~(3) Denial of a permit renewal application.~~

~~(b) Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act.~~

~~(c) 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.~~

~~(d) 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.~~

~~B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]~~

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

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

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

~~B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]~~

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

~~Indiana Department of Environmental Management~~
~~Compliance Branch, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~and~~

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

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

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

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

~~(2) The compliance status;~~

~~(3) Whether compliance was continuous or intermittent;~~

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

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

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

~~B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]~~

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

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

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

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

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

~~Indiana Department of Environmental Management~~
~~Compliance Branch, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

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

~~(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.~~

~~(c) 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 contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept 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.12 Emergency Provisions [326 IAC 2-7-16]~~

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

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

~~(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;~~
~~(2) The permitted facility was at the time being properly operated;~~

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

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

~~Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or~~
~~Telephone Number: 317-233-5674 (ask for Compliance Section)~~
~~Facsimile Number: 317-233-5967~~
~~IDEM Northwest Regional Office Telephone Number: 1-888-209-8892~~
~~IDEM Northwest Regional Office Facsimile Number: 812-881-6745~~

~~(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, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~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) 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.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]~~

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

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

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

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

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

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

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

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

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

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

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

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

~~B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]~~

~~(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either~~

~~(1) incorporated as originally stated,~~

~~(2) revised, or~~

~~(3) deleted~~

~~by this permit.~~

~~(b) All previous registrations and permits are superseded by this permit.~~

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

~~(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:~~
~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.~~

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

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

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

~~(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "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.17 Permit Renewal [326 IAC 2-7-4]~~

~~(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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

~~(1) A timely renewal application is one that is:~~

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

~~(B) 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.~~

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

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

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

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~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.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]~~

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

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

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

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

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

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

~~(3) The changes do not result in emissions which exceed the emissions allowable under 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, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes 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 increases and decreases in emissions in 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.~~

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

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

~~B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]~~

~~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) Have access to and copy any records that must be kept under the conditions of this permit;~~

~~(c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;~~

~~(d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and~~

~~(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.~~

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

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

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

~~Indiana Department of Environmental Management~~
~~Permits Branch, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

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

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

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

~~(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 Section), to determine the appropriate permit fee.~~

~~SECTION C SOURCE OPERATION CONDITIONS~~

~~Entire Source~~

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

~~C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]~~

~~(a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

~~(b) Pursuant to 326 IAC 6-3-2(c)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour. This condition is not federally enforceable.~~

~~C.2 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 forty percent (40%) 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.3 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.4 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. 326 IAC 9-1-2 is not federally enforceable.~~

~~C.5 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). 326 IAC 6-4-2(4) is not federally enforceable.~~

~~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 units vented to the control equipment are in operation.~~

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

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

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

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

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

~~(A) Asbestos removal or demolition start date;~~

~~(B) Removal or demolition contractor; or~~

~~(C) Waste disposal site.~~

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

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

~~All required notifications shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Asbestos Section, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~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) 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 that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.~~

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

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

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

~~A test protocol, except as provided elsewhere in this permit, shall be submitted to:~~
~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

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

~~(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source 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.9 Compliance Requirements [326 IAC 2-1.1-11]~~

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

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

~~C.10 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, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~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.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 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 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.~~

~~(b) Whenever a condition in this permit requires the measurement of a temperature, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.~~

~~(c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other 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, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~
~~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 68.215]~~

~~If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:~~

~~(a) A compliance schedule for meeting the requirements of 40 CFR 68; or~~

~~(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).~~

~~All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [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, OAQ 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, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall constitute a violation of 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.~~

~~(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~

~~(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.~~

~~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 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) The Permittee shall submit an annual 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 annual emission statement shall meet the following requirements:~~

~~(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);~~

~~(2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.~~

~~(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission 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 46206-6015~~
~~The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(c) The annual 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]~~

~~(a) Records of all required data, reports and support information 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 kept 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.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]~~

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

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

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~(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.~~

~~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.~~

~~Part 2 MACT Application Submittal Requirement~~

~~C.21 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~~

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T091-6295-00020, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

(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.

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

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

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

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

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

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

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

(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 the "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) The "responsible official" is defined at 326 IAC 2-7-1(34).

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 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) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ , on or before the date it is due.

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (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, 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 to091-6295-00020 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 permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

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

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

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

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

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

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating 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.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, 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.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72]

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission 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.21 Source Modification Requirement [326 IAC 2-7-10.5]

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

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, 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.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

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

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 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 forty percent (40%) 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.3 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.4 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.5 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). 326 IAC 6-4-2(4) is 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 shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

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

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

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. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

C.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 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.11 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.12 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.13 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.14 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.15 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.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

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

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

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

The statement must be submitted to:

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

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

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

C.17 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 "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions 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 the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or 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.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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

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

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

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

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

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

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

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

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

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

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

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

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

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

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

C.19 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.

41. Upon further review, IDEM has determined that once per day monitoring of the control device (or 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. Conditions D.1.6, now re-numbered D.1.8, D.2.6, now re-numbered D.2.9, D.3.6, now re-numbered D.3.9, D.4.7, now re-numbered D.4.10, D.5.7, now re-numbered D.5.9, D.6.6, now re-numbered D.6.8, and D.7.6, now re-numbered D.7.8 are revised as follows:

D.1.~~6~~**8** Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the four (4) electric induction furnaces and the charge handling system (ID No. 39-DC-4) 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 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.~~ **If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

D.2.~~6~~**9** Visible Emissions Notations

(a) Visible emission notations of the A-Line pouring and cooling operations and the stack exhaust for the baghouse (ID 36-1-DC-8) controlling the A-Line Holding Silo and Muller, and the A-Line Shakeout operation 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 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.~~
If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.3.~~6~~**9** Visible Emissions Notations

(a) Visible emission notations of the B-Line pouring operation and the stack exhaust for the baghouse controlling the B-Line Holding Silo and Muller, and the B-Line Shakeout operation 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 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.~~
If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.4.~~7~~**10** Visible Emissions Notations

(a) Visible emission notations of the Floor pouring and cooling operations and each of the stack exhausts for the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine, 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 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.~~
If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.5.~~7~~**9** Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the Chill Iron shot blast machine 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 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.~~
If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.~~6~~**8** Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the indoor scrap handling operation and the raw sand storage silo 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 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.~~ **If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

D.7.~~6~~**8** Visible Emissions Notations

(a) Visible emission notations of the stack exhaust for the baghouse controlling the ~~Isocure~~ **Cold Box** Line Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper, identified as 36-1-DC-7, 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 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.~~ **If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

42. 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. Also, the pressure drop ranges in conditions D.1.7, now re-numbered D.1.9, D.4.8, now re-numbered D.4.11, D.5.9, now re-numbered D.5.12, and D.6.7, now re-numbered D.6.9, have been revised as requested by the Permittee based on manufacturer's data. These ranges are within a pressure drop range that is acceptable to IDEM, OAQ. Conditions D.1.7, now re-numbered D.1.9, D.2.7, now re-numbered D.2.10, D.3.7, now re-numbered D.3.10, D.4.8, now re-numbered D.4.11, D.5.9, now re-numbered D.5.11, D.6.7, now re-numbered D.6.9, and D.7.7, now re-numbered D.7.9 are revised as follows:

D.1.~~7~~**9** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the dust collector used in conjunction with the charge handling system, at least once per ~~shift~~ **day** when the charge handling system is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and ~~6.0~~ **7.0** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.2.~~7~~**10** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the A-Line Shakeout operation and the A-Line Holding Silo and Muller, at least once per ~~shift~~ **day** when the A-Line Shakeout operation and the A-Line Holding Silo and Muller 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 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~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.3.~~7~~**10** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the B-Line Shakeout operation and the B-Line Holding Silo and Muller, at least once per ~~shift~~ **day** when the B-Line Shakeout operation and the B-Line Holding Silo and Muller 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 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~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.4.~~8~~**11** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each of the baghouses used in conjunction with the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine, at least once per ~~shift~~ **day** when the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and ~~6.0~~ **7.0** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.5.~~9~~**11** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the Chill Iron shot blast machine, at least once per ~~shift~~ **day** when the Chill Iron shot blast machine 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 1.0 and ~~6.0~~ **7.0** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.6.~~7~~**9** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the baghouse controlling the indoor scrap handling system and the raw sand storage silo at least once per ~~shift~~ **day** when the indoor scrap handling system and the raw sand storage silo 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 and ~~6.0~~ **7.0** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

D.7.~~7~~**9** Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the baghouse controlling the ~~Isocure~~ **Cold Box** Line Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper at least once per ~~shift~~ **day** when the ~~Isocure~~ **Cold Box** Line Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper 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 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~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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.

43. Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

~~D.1.8 Dust Collector Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the charge handling system when venting to the atmosphere. A dust collector 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.~~

~~D.2.8 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the A-Line Shakeout operation and the A-Line Holding Silo and Muller 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.~~

~~D.3.8 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the B-Line Shakeout operation and the B-Line Holding Silo and Muller 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.~~

~~D.4.9 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine 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.~~

~~D.5.10 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the Chill Iron shot blast machine 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.~~

~~D.6.8 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the indoor scrap handling system and the raw sand storage silo 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.~~

~~D.7.8 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the Isocure Line Sand Mixer, the Isocure line sand hopper, the Pepset line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper 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.~~

D.1.1~~0~~**11** Record Keeping Requirements

(a) To document compliance with Condition D.1.1(b), the Permittee shall maintain records of the metal throughput to the four (4) electric induction furnaces~~,~~ **and** the electric holding furnace~~, and the charge handling system~~ for each month;

(b) To document compliance with Condition D.1.~~6~~**8**, the Permittee shall maintain records of visible emission notations of the four (4) electric induction furnaces and charge handling system stack exhaust (ID No. 39-DC-4) once per ~~shift~~ **day**.

(c) To document compliance with Condition D.1.~~7~~**9**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

~~(d) To document compliance with Condition D.1.8, the Permittee shall maintain records of the results of the inspections required under Condition D.1.8 and the dates the vents are redirected.~~

***

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

D.2.1~~1~~**12** Record Keeping Requirements

***

(b) To document compliance with Condition D.2.~~6~~**9**, the Permittee shall maintain records of visible emission notations of the A-Line pouring and cooling operations and the stack exhaust for the baghouse controlling the A-Line Holding Silo and Muller, and the A-Line Shakeout operation once per ~~shift~~ **day**.

(c) To document compliance with Condition D.2.~~7~~**10**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~Inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

***

~~(d) To document compliance with Condition D.2.8, the Permittee shall maintain records of the results of the inspections required under Condition D.2.8 and the dates the vents are redirected.~~

***

D.3.~~10~~**12** Record Keeping Requirements

***

(b) To document compliance with Condition D.3.~~6~~**9**, the Permittee shall maintain records of visible emission notations of the B-Line pouring operation and the stack exhaust for the baghouse controlling the B-Line Holding Silo and Muller, and the B-Line Shakeout operation once per ~~shift~~ **day**.

(c) To document compliance with Condition D.3.~~7~~**10**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~Inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

~~(d) To document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8 and the dates the vents are redirected.~~

***

D.4.~~11~~**13** Record Keeping Requirements

***

(e) To document compliance with Condition D.4.~~7~~**10**, the Permittee shall maintain records of visible emission notations of the Floor pouring and cooling operations and each of the stack exhausts for the baghouses controlling the High Speed Continuous Sand Mixer hopper, the Knockout Station, and the Wheelabrator shot blast machine once per ~~shift~~ **day**.

(f) To document compliance with Condition D.4.~~8~~**11**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~Inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

~~(g) To document compliance with Condition D.4.9, the Permittee shall maintain records of the results of the inspections required under Condition D.4.9 and the dates the vents are redirected.~~

***

D.5.~~12~~**13** Record Keeping Requirements

(a) To document compliance with Condition D.5.~~7~~**9**, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the Chill Iron shot blast machine once per ~~shift~~ **day**.

(b) To document compliance with Condition D.5.~~8~~**10**, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections~~, and those additional inspections prescribed by the Preventive Maintenance Plan~~.

(c) To document compliance with Condition D.5.~~9~~**11**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

~~(d) To document compliance with Condition D.5.10, the Permittee shall maintain records of the results of the inspections required under Condition D.5.10 and the dates the vents are redirected.~~

***

D.6.~~10~~**11** Record Keeping Requirement

***

(b) To document compliance with Condition D.6.~~6~~**8**, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the indoor scrap handling operation and the raw sand storage silo once per ~~shift~~ **day**.

(c) To document compliance with Condition D.6.~~7~~**9**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~Inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

(d) To document compliance with Condition D.6.3, the Permittee shall maintain records of the metal throughput to the scrap handling rotary reclaimer for each month.

~~(d) To document compliance with Condition D.6.8, the Permittee shall maintain records of the results of the inspections required under Condition D.6.8 and the dates the vents are redirected.~~

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

D.7.~~10~~**11** Record Keeping Requirement

***

~~(c)~~**(d)** To document compliance with Condition D.7.~~6~~**8**, the Permittee shall maintain records of visible emission notations of the stack exhaust for the baghouse controlling the ~~Isocure~~ **Cold Box** Line Sand Mixer, the ~~Isocure~~ **Cold Box** line sand hopper, the ~~Pepset~~ **No Bake** line sand hopper, the Warm Box Line Mixers and hopper, and the core and mold sand hopper once per ~~shift~~ **day**.

~~(d)~~**(e)** To document compliance with Condition D.7.~~7~~**9**, the Permittee shall maintain ~~the following:~~

~~(1)~~ ~~R~~**r**ecords of the ~~Inlet and outlet differential static~~ pressure **drop** once per ~~shift~~ **day** ~~during normal operation when venting to the atmosphere~~; ~~and~~

~~(2) Documentation of the dates vents are redirected.~~

~~(e) To document compliance with Condition D.7.8, the Permittee shall maintain records of the results of the inspections required under Condition D.7.8 and the dates the vents are redirected.~~

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

44. Condition D.5.8, now re-numbered D.5.10, has been revised as follows due to the change to condition C.15, now re-numbered C.14, as noted in item 37 above:

D.5.~~8~~**10** Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters in the paint spray booth. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stack (5-E-1) while the booth is in operation. ~~The Compliance Response Plan shall be followed whenever~~ **If** a condition exists which should result in a response step**, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances**. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack**s** and the presence of overspray on the rooftops and the nearby ground. ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for~~ ~~w~~**W**hen **there is** a noticeable change in overspray emission**s**, or **when** evidence of overspray emission**s** is observed**, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances**. ~~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~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

~~(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.~~

45. Paragraph (a) of the Broken or Failed Baghouse conditions now numbered as D.1.10, D.2.11, D.3.11, D.4.12, D.5.12, D.6.10, and D.7.10 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 conditions now numbered as D.1.6, D.2.7, D.3.7, D.4.8, D.5.7, D.6.6, and D.7.6 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 conditions D.1.10, D.2.11, D.3.11, D.4.12, D.5.12, D.6.10, and D.7.10 has been revised for those processes that operate in batch 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.1.6 Particulate Matter (PM) and HAPs

(a) In order to comply with conditions D.1.1 and D.1.2 and to comply with the metallic HAP emission limits in condition D.1.3, the dust collector for PM, PM10 and metallic HAP control shall be in operation and control emissions from the charge handling system at all times when the charge handling system is in operation.

(b) **In the event that bag failure is observed in a multi-compartment dust collector, 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.1.~~9~~**10** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) **For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).**

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.2.7 Particulate Matter (PM) and HAP

(a) In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouse (ID 36-1-DC-8) for PM, PM10, and metallic HAP control shall be in operation and control emissions from the A-Line Shakeout operation and the A-Line Holding Silo and Muller at all times that the A-Line Shakeout operation and the A-Line Holding Silo and Muller are in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.~~9~~**11** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.3.~~8~~**7** Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse for PM control shall be in operation and control emissions from the B-Line Shakeout operation and the B-Line Holding Silo and Muller at all times that the B-Line Shakeout operation and the B-Line Holding Silo and Muller are in operation.

(b) In order to comply with Condition D.3.4, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the B-Line Shakeout operation at all times that the B-Line Shakeout operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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.~~9~~**11** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.4.8 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.4.1 and D.4.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the High Speed Continuous Sand Mixer hopper, the Floor Knockout Station and the Wheelabrator shot blast machine at all times that the High Speed Continuous Sand Mixer hopper, the Floor Knockout Station and the Wheelabrator shot blast machine are in operation.

(b) In order to comply with Condition D.4.4, the baghouses for PM, PM10 and metallic HAP control shall be in operation and control emissions from the Floor Knockout Station and the Wheelabrator shot blast machine at all times that the Floor Knockout Station and the Wheelabrator shot blast machine are in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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.~~10~~**12** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.5.5~~5~~**6** Particulate Matter (PM) and HAPs

(a) In order to comply with condition D.5.1 and D.5.3, the baghouse for PM and metallic HAP control shall be in operation and control emissions from the Chill Iron shot blast machine at all times that the Chill Iron shot blast machine is in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, 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.~~11~~**12** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.6.6 Particulate Matter (PM) and HAPs

(a) In order to comply with Conditions D.6.1 and D.6.2, the baghouses for PM and PM10 control shall be in operation and control emissions from the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer at all times that the indoor scrap handling operation and the raw sand storage silo for the High Speed Continuous Sand Mixer are in operation.

(b) In order to comply with Condition D.6.3, the baghouse for PM, PM10 and metallic HAP control shall be in operation and control emissions from the indoor scrap handling operation at all times that the indoor scrap handling operation is in operation.

(c) In the event that bag failure is observed in a multi-compartment dust collector, 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.~~9~~**10** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) **For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).**

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.7.~~5~~**6** Particulate Matter (PM)

(a) In order to comply with Conditions D.7.1 and D.7.2, the baghouse for PM control shall be in operation and control emissions from the Cold Box Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers, at all times that the Cold Box Sand Mixer, the Cold Box line sand hopper, the No Bake line sand hopper, the Warm Box line sand hopper, and the Warm Box Sand Mixers are in operation.

(b) **In the event that bag failure is observed in a multi-compartment dust collector, 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.~~9~~**10** Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~**(a)** ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **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).**

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

46. Condition D.6.1 has been updated as follows:

D.6.1 PSD Minor Limit [326 IAC 2-2]

(a) The total PM and PM10 emissions from the indoor scrap handling operation and the raw sand storage silo that are controlled by the baghouse that exhausts through stack No. 39-DC-5 shall not exceed 0.10 and 0.06 pound per ton of metal and sand throughput, respectively.

(b) The throughput of sand from the raw sand storage silo shall not exceed 42,574 tons of sand per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with t~~T~~he above PM and PM10 emission limitations and the sand throughput limitation will limit total PM and PM10 emissions from the indoor scrap handling operation, the raw sand storage silo, and the High Speed Continuous Sand Mixer (listed in section D.4) to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

47. The third sentence on the Quarterly Deviation and Compliance Monitoring report form has been replaced with a sentence that is consistent with the condition in Section B Deviations from Permit Requirements and Conditions.

Conclusion

The operation of this gray iron foundry producing gray iron boilers shall be subject to the conditions of the attached proposed Significant Permit Modification No. 091-20949-00020.

Appendix A: Emission Calculations (Page 1 of 4)

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Total Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	Electric Induction Furnaces	Charge Handling	A-Line Pouring	A-Line Cooling	A-Line Shakeout	A-Line Muller and Sand Handling	B-Line Pouring	B-Line Cooling	B-Line Shakeout	**SUBTOTAL**
PM	59.57	52.56	105.12	147.17	336.38	3153.60	165.56	55.20	126.10	4201.26
PM10	46.43	31.54	216.55	147.17	235.47	473.04	81.21	55.20	88.30	1374.91
SO2	0.00	0.00	2.10	0.00	0.00	0.00	0.79	0.00	0.00	2.89
NOx	0.00	0.00	1.05	0.00	0.00	0.00	0.39	0.00	0.00	1.44
VOC	0.00	0.00	14.72	0.00	126.14	0.00	5.52	0.00	47.30	193.68
CO	0.00	0.00	630.72			0.00	236.52			867.24
total HAPs	6.80	1.99	3.98	5.57	12.74	0.00	6.27	2.09	4.78	44.22
worst case single HAP	(Lead) 4.77	(Manganese) 1.63	(Manganese) 3.26	(Manganese) 4.56	(Manganese) 10.43	0.00	(Manganese) 5.13	(Manganese) 1.71	(Manganese) 3.91	(Manganese) 30.63

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Total Limited Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	Electric Induction Furnaces	Charge Handling	A-Line Pouring	A-Line Cooling	A-Line Shakeout	A-Line Muller and Sand Handling	B-Line Pouring	B-Line Cooling	B-Line Shakeout	**SUBTOTAL**
PM	3.40	15.00	25.00	35.00	8.72	24.90	66.15	22.05	10.48	210.70
PM10	2.65	9.00	51.50	35.00	6.10	3.73	32.45	22.05	7.34	169.82
SO2	0.00	0.00	0.50	0.00	0.00	0.00	0.32	0.00	0.00	0.82
NOx	0.00	0.00	0.25	0.00	0.00	0.00	0.16	0.00	0.00	0.41
VOC	0.00	0.00	3.50	0.00	30.00	0.00	2.21	0.00	18.90	54.61
CO	0.00	0.00	150.00			0.00	94.50			244.50
total HAPs	0.39	0.57	0.66	0.93	0.23	0.00	0.80	0.27	0.13	3.98
worst case single HAP	(Lead) 0.27	(Manganese) 0.47	(Manganese) 0.54	(Manganese) 0.76	(Manganese) 0.19	0.00	(Manganese) 0.65	(Manganese) 0.22	(Manganese) 0.10	(Manganese) 3.04

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Appendix A: Emission Calculations (Page 2 of 4)

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Total Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	B-Line Muller and Sand Handling	Floor Pouring	Floor Cooling	Floor Shakeout	Floor Knockout	High Speed Mixer and Sand Handling	Cold Box Sand Mixer and Sand Handling	No Bake Mixers and Sand Handling	Warm Box Sand Handling	**SUBTOTAL**
PM	1576.80	110.38	36.79	84.10	210.24	662.26	91.45	94.61	78.84	2945.47
PM10	236.52	54.14	36.79	58.87	147.17	99.34	13.72	14.19	11.83	672.57
SO2	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
NOx	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
VOC	0.00	3.68	0.00	31.54	78.84	699.05	0.00	0.00	0.00	813.11
CO	0.00	157.68			0.00	0.00	0.00	0.00	0.00	157.68
total HAPs	0.00	4.18	1.39	3.19	7.96	27.24	0.00	0.00	0.00	43.96
worst case single HAP	0.00	(Manganese) 3.42	(Manganese) 1.14	(Manganese) 2.61	(Manganese) 6.52	(Xylene) 18.33	0.00	0.00	0.00	(Xylene) 18.33

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Total Limited Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	B-Line Muller and Sand Handling	Floor Pouring	Floor Cooling	Floor Shakeout	Floor Knockout	High Speed Mixer and Sand Handling	Cold Box Sand Mixer and Sand Handling	No Bake Mixers and Sand Handling	Warm Box Sand Handling	**SUBTOTAL**
PM	6.97	110.38	36.79	84.10	43.73	0.08	23.55	24.36	20.30	350.26
PM10	1.05	54.14	36.79	58.87	30.61	0.01	3.53	3.65	3.05	191.70
SO2	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
NOx	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
VOC	0.00	3.68	0.00	31.54	78.84	14.00	0.00	0.00	0.00	128.06
CO	0.00	157.68			0.00	0.00	0.00	0.00	0.00	157.68
total HAPs	0.00	0.40	0.13	0.30	0.06	0.90	0.00	0.00	0.00	1.79
worst case single HAP	0.00	(Manganese) 0.33	(Manganese) 0.11	(Manganese) 0.25	(Manganese) 0.05	(Xylene) 0.53	0.00	0.00	0.00	(Manganese) 0.74

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Appendix A: Emission Calculations (Page 3 of 4)

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Total Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	Cold Box Core Making	Cold Box Core Machine Afterburner	No Bake Core/Mold Making	Warm Box Core Making	Controlled Machining	Uncontrolled Machining	Wheelabrator Shot Blast	Chill Iron Shot Blast	Pouring, Cooling & Shakeout Organic HAPs	**SUBTOTAL**
PM	0.00	0.01	0.00	0.00	0.88	0.88	2308.26	130.31	see note	2440.34
PM10	0.00	0.05	0.00	0.00	0.39	0.39	230.83	13.03	see note	244.69
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.00
NOx	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.61
VOC	97.44	0.03	116.25	65.04	0.00	0.00	0.00	0.00	see note	278.76
CO	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.52
total HAPs	0.40	0.01	6.40	19.65	0.00	0.00	87.44	4.94	37.17	156.01
worst case single HAP	(Naphthalene) 0.38	(Hexane) 0.01	(Xylene) 2.74	(Ethylene Glycol) 10.41	0.00	0.00	(Manganese) 71.56	(Manganese) 4.04	(Benzene) 16.29	(Manganese) 75.60

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Emissions from Pouring, Cooling and Shakeout represent organic HAP emissions from all pouring, cooling and shakeout operations combined. See individual pouring, cooling, shakeout operations above for criteria pollutant emissions and metallic HAP emissions.

Total Limited Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	Cold Box Core Making	Cold Box Core Machine Afterburner	No Bake Core/Mold Making	Warm Box Core Making	Controlled Machining	Uncontrolled Machining	Wheelabrator Shot Blast	Chill Iron Shot Blast	Pouring, Cooling & Shakeout Organic HAPs	**SUBTOTAL**
PM	0.00	0.01	0.00	0.00	0.03	0.25	12.70	2.59	see note	15.58
PM10	0.00	0.05	0.00	0.00	0.01	0.11	1.27	0.26	see note	1.70
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.00
NOx	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.61
VOC	5.99	0.03	12.90	17.94	0.00	0.00	0.00	0.00	see note	36.86
CO	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	see note	0.52
total HAPs	0.04	0.01	0.80	5.22	0.00	0.00	0.34	0.01	3.90	10.32
worst case single HAP	(Naphthalene) 0.04	(Hexane) 0.01	(Xylene) 0.51	(Ethylene Glycol) 2.40	0.00	0.00	(Manganese) 0.28	(Manganese) 0.005	(Benzene) 1.88	(Ethylene Glycol) 2.40

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Emissions from Pouring, Cooling and Shakeout represent organic HAP emissions from all pouring, cooling and shakeout operations combined. See individual pouring, cooling, shakeout operations above for criteria pollutant emissions and metallic HAP emissions.

Appendix A: Emission Calculations (Page 4 of 4)

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Total Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	New Scrap Handling Crusher	New Scrap Handling Rotary Reclaimer	Raw Sand Storage Silo	Spent Sand Storage Silo	Sand Conveyor	Preheater	Surface Coating	Unpaved Roadways	Emergency Generators	**TOTAL**
PM	32.85	210.24	157.68	157.68	157.68	0.11	2.94	0.44	1.57	10,308.26
PM10	3.29	147.17	23.65	23.65	23.65	0.43	2.94	0.15	1.57	2,518.67
SO2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.46	4.91
NOx	0.00	0.00	0.00	0.00	0.00	5.68	0.00	0.00	22.09	30.08
VOC	0.00	0.00	0.00	0.00	0.00	0.31	10.17	0.00	1.78	1,297.81
CO	0.00	0.00	0.00	0.00	0.00	4.77	0.00	0.00	4.76	1,034.97
total HAPs	0.00	7.96	0.00	0.00	0.00	0.11	0.00	0.00	0.012	252.27
worst case single HAP	0.00	(Manganese) 6.52	0.00	0.00	0.00	(Hexane) 0.10	0.00	0.00	(Propylene) 0.0047	(Manganese) 126.44

Total emissions based on rated capacities at 8,760 hours/year.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration
Unpaved Roadway emissions are taken from Title V permit No. 091-6295-00020, issued on December 30, 2002.

Total Limited Potential To Emit (tons/year)

	Emissions Generating Activity									
Pollutant	New Scrap Handling Crusher	New Scrap Handling Rotary Reclaimer	Raw Sand Storage Silo	Spent Sand Storage Silo	Sand Conveyor	Preheater	Surface Coating	Unpaved Roadways	Emergency Generators	**TOTAL**
PM	3.31	2.31	0.84	1.73	15.91	0.11	0.29	0.44	1.57	603.05
PM10	0.33	1.62	0.13	0.26	2.39	0.43	0.29	0.15	1.57	370.39
SO2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.46	2.84
NOx	0.00	0.00	0.00	0.00	0.00	5.68	0.00	0.00	22.09	29.05
VOC	0.00	0.00	0.00	0.00	0.00	0.31	10.17	0.00	1.78	231.79
CO	0.00	0.00	0.00	0.00	0.00	4.77	0.00	0.00	4.76	412.23
total HAPs	0.00	0.03	0.00	0.00	0.00	0.11	0.00	0.00	0.012	16.24
worst case single HAP	0.00	(Manganese) 0.02	0.00	0.00	0.00	(Hexane) 0.10	0.00	0.00	(Propylene) 0.0047	(Manganese) 4.08

Total emissions based on rated capacities at 8,760 hours/year.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Appendix A: Emission Calculations

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No.: 091-20949
Plt. ID #: 091-00020

Core Making Process

Machine	Date of Construction	Capacity (tons cores/hr)	Maximum Resin Content (%)	VOC Emission Factor from Resin Evaporation (lb/ton cores)	Max. Catalyst Usage (lb/ton cores)	Potential VOC Emissions from resin evap (tons/yr)	Potential VOC Emissions from Catalyst Usage (tons/yr)	Total Potential VOC Emissions (tons/yr)
Cold Box Core Machine	1975	5.8	1.0%	1	2.8	25.40	71.13	96.54
No Bake Core Machine	1979	6	3.0%	3	1.53	78.84	36.51	115.35
Warm Box Core Machine #1	1971	1.73	1.0%	0	5.7	0.00	20.43	20.43
Warm Box Core Machine #2	1976	1.73	1.0%	0	5.7	0.00	20.43	20.43
Warm Box Core Machine #3	1971	1.73	1.0%	0	5.7	0.00	20.43	20.43
High Speed Cont. Sand Mixer	2001	42	1.8%	1.8	2	331.13	367.92	699.05
Total						**435.37**	**536.85**	**972.22**

Note: The resin used in the Warm Box Core Machines reacts under acidic conditions and forms new products that are not VOCs. Therefore, there are no VOC emissions from the resin.
Also, the catalyst used in the Warm Box Core Machines contains a maximum of 47.3% VOC, therefore, VOC emissions represent the max. usage * 0.473.

Limits Necessary to render 326 IAC 2-2 (PSD) not applicable:

Core Machines	VOC limit (tons/yr)	VOC EF for resin evaporation (lb/ton cores)	VOC EF for resin evaporation (lb VOC/lb resin)	Catalyst EF (lb VOC/ton cores)	core production (tons cores/yr)	Catalyst usage limit (lbs/yr)	resin usage limit (lbs/yr)
Cold Box Core Machine	N/A	1	0.05	2.8	50,808	20,000	160,000
No Bake Core Machine	38.38	3	0.05	1.53	16,945	20,000	80,000
Warm Box Core Machine #1	N/A	0	0	5.7	15,155	20,000	100,000
Warm Box Core Machine #2	N/A	0	0	5.7	15,155	20,000	100,000
Warm Box Core Machine #3	N/A	0	0	5.7	15,155	20,000	100,000
High Speed Cont. Sand Mixer	24.9	1.8	0.05	2	13,105	20,000	160,000
Total					**126,322**	**120,000**	**700,000**

Core Machines	VOC Control Efficiency	Catalyst Controlled/Limited VOC Emissions (tons/yr)	Resin Controlled/Limited VOC Emissions (tons/yr)	Total Controlled/Limited VOC Emissions (tons/yr)
Cold Box Core Machine	89.10%	1.09	4.00	5.09
No Bake Core Machine	0.00%	10.00	2.00	12.00
Warm Box Core Machine #1	0.00%	4.73	0.00	4.73
Warm Box Core Machine #2	0.00%	4.73	0.00	4.73
Warm Box Core Machine #3	0.00%	4.73	0.00	4.73
High Speed Cont. Sand Mixer	0.00%	10.00	4.00	14.00
TOTAL		**35.28**	**10.00**	**45.28**

Appendix A: Grey Iron Foundry Operations
VOC and HAP Emission Calculations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Material	Solvent Name	Usage Rate (lbs/month)	Weight % VOC	Weight % Naphthalene	Weight % Methanol	Potential VOC Emissions (ton/yr)	Naphthalene Emissions (ton/yr)	Methanol Emissions (ton/yr)
Cold Box Core Making								
Cold Box Parting Spray	Nix Stix 30	100.00	100%	0.00%	0.00%	0.60	0.00	0.00
No Bake Core/Mold Making								
No Bake Parting Spray	Refcosolv 3000	100.00	100%	0.00%	0.00%	0.60	0.00	0.00
Warm Box Core Making								
Warm Box Parting Spray	Nix Stix 46	100.00	100%	0.00%	0.00%	0.60	0.00	0.00
Warm Box Additive	Humidity Additive	300.00	100%	0.00%	0.00%	1.80	0.00	0.00
Warm Box Additive	Silane	300.00	75%	0.00%	50.00%	1.35	0.00	0.90
Core/Mold Cleaners								
No Bake Cleaner	Refcohol 5522	100.00	100%	0.00%	0.00%	0.60	0.01	0.00
No Bake Cleaner	RefcoPart 8000			0.00%	0.00%			
Cold Box/Warm Box Cleaner	Metal Cleaner 27			0.00%	0.00%			
Cold Box Cleaner	AC Attack			1.50%	0.00%			
						5.55	**0.01**	**0.90**

Appendix A: Grey Iron Foundry Operations
HAP Emission Calculations - Core Making

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No.: 091-20949
Plt. ID #: 091-00020

Material	Maximum Usage (tons/yr)	Limited Usage (tons/yr)	Weight % Xylenes	Weight % Cumene	Weight % Ethylene Glycol	Weight % Phenol	Weight % Formaldehyde	Weight % Naphthalene	Weight % MDI	Potential Xylene Emissions (ton/yr)	Potential Cumene Emissions (ton/yr)	Potential Ethylene Glycol Emissions (ton/yr)	Potential Phenol Emissions (ton/yr)	Potential Formaldehyde Emissions (ton/yr)	Potential Naphthalene Emissions (ton/yr)	Potential MDI Emissions (ton/yr)
Cold Box Core Making																
Cold Box Resin Part I	459.90	40.00	0.00%	0.00%	0.00%	6.70%	0.20%	1.40%	0.00%	0.00	0.00	0.00	0.00	0.02	0.21	0.00
Cold Box Resin Part II	438.00	40.00	0.00%	0.00%	0.00%	0.00%	0.00%	1.20%	39.30%	0.00	0.00	0.00	0.00	0.00	0.17	0.00
Catalyst	71.39	10.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Bake Core/Mold Making																
No-bake Catalyst	40.30	10.00	4.89%	2.09%	0.00%	0.00%	0.00%	0.00%	0.00%	1.97	0.84	0.00	0.00	0.00	0.00	0.00
No-bake Resin Part I	735.84	20.00	1.80%	0.80%	0.00%	7.50%	0.00%	2.90%	0.00%	0.77	0.34	0.00	0.00	0.00	1.25	0.00
No-bake Resin Part II	657.00	20.00	0.00%	0.00%	0.00%	0.00%	0.00%	3.20%	36.00%	0.00	0.00	0.00	0.00	0.00	1.23	0.00
Warm Box Mixer #1 and Core Machine #1																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.18	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	3.47	2.60	0.00	0.00	0.00
Warm Box Mixer #2 and Core Machine #2																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.18	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	3.47	2.60	0.00	0.00	0.00
Warm Box Mixer #3 and Core Machine #3																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.18	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	3.47	2.60	0.00	0.00	0.00
High Speed Cont. Sand Mixer																
No-bake Catalyst	367.92	10.00	4.89%	2.09%	0.00%	0.00%	0.00%	0.00%	0.00%	17.99	7.69	0.00	0.00	0.00	0.00	0.00
No-bake Resin Part I	319.30	40.00	1.80%	0.80%	0.00%	7.50%	0.00%	2.90%	0.00%	0.34	0.15	0.00	0.00	0.00	0.54	0.00
No-bake Resin Part II	282.51	40.00	0.00%	0.00%	0.00%	0.00%	0.00%	3.20%	36.00%	0.00	0.00	0.00	0.00	0.00	0.53	0.00
Reduction Factors for Core Making										**21.07**	**9.03**	**10.41**	**7.81**	**0.56**	**3.93**	**0.00**

Total Potential Emissions (tons/yr): 52.80

Pollutant	Cold Box Release Factor	No-bake Release Factor	Warm Box Release Factor
Phenol	0.00%	0.00%	N/A
Formaldehyde	2.00%	2.00%	5.00%
MDI	0.00%	0.00%	N/A
Polymeric MDI	0.00%	0.00%	N/A
Naphthalene	3.25%	5.85%	N/A
1,2,4 Trimethylbenzene	3.25%	5.85%	N/A
Xylene	3.25%	5.85%	N/A
Cumene	3.25%	5.85%	N/A
Methanol	N/A	N/A	100.00%

METHODOLOGY
HAP Emissions from Resins = Maximum Usage Rate (tons/yr) * % HAP * Reduction Factor (%)
HAP Emissions from Catalysts = Maximum Usage Rate (tons/yr) * % HAP
Reduction factors obtained from the American Foundrymen's Society Publication entitled "Form R Reporting of Binder Chemicals used in Foundries", and refers to the weight percent of HAP that is emitted to the atmosphere.

Appendix A: Grey Iron Foundry Operations
HAP Emission Calculations - Core Making

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No.: 091-20949
Plt. ID #: 091-00020

Material	Maximum Usage (tons/yr)	Limited Usage (tons/yr)	Weight % Xylenes	Weight % Cumene	Weight % Ethylene Glycol	Weight % Phenol	Weight % Formaldehyde	Weight % Naphthalene	Weight % MDI	Limited Xylene Emissions (ton/yr)	Limited Cumene Emissions (ton/yr)	Limited Ethylene Glycol Emissions (ton/yr)	Limited Phenol Emissions (ton/yr)	Limited Formaldehyde Emissions (ton/yr)	Limited Naphthalene Emissions (ton/yr)	Limited MDI Emissions (ton/yr)
Cold Box Core Making																
Cold Box Resin Part I	459.90	40.00	0.00%	0.00%	0.00%	6.70%	0.20%	1.40%	0.00%	0.00	0.00	0.00	0.00	0.002	0.02	0.00
Cold Box Resin Part II	438.00	40.00	0.00%	0.00%	0.00%	0.00%	0.00%	1.20%	39.30%	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Catalyst	71.39	10.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Bake Core/Mold Making																
No-bake Catalyst	40.30	10.00	4.89%	2.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.49	0.21	0.00	0.00	0.00	0.00	0.00
No-bake Resin Part I	735.84	20.00	1.80%	0.80%	0.00%	7.50%	0.00%	2.90%	0.00%	0.02	0.01	0.00	0.00	0.00	0.03	0.00
No-bake Resin Part II	657.00	20.00	0.00%	0.00%	0.00%	0.00%	0.00%	3.20%	36.00%	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Warm Box Mixer #1 and Core Machine #1																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	0.80	0.60	0.00	0.00	0.00
Warm Box Mixer #2 and Core Machine #2																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	0.80	0.60	0.00	0.00	0.00
Warm Box Mixer #3 and Core Machine #3																
Resin	242.65	50.00	0.00%	0.00%	0.00%	0.00%	1.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Catalyst	43.36	10.00	0.00%	0.00%	8.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.00	0.80	0.60	0.00	0.00	0.00
High Speed Cont. Sand Mixer																
No-bake Catalyst	367.92	10.00	4.89%	2.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.49	0.21	0.00	0.00	0.00	0.00	0.00
No-bake Resin Part I	319.30	40.00	1.80%	0.80%	0.00%	7.50%	0.00%	2.90%	0.00%	0.04	0.02	0.00	0.00	0.00	0.07	0.00
No-bake Resin Part II	282.51	40.00	0.00%	0.00%	0.00%	0.00%	0.00%	3.20%	36.00%	0.00	0.00	0.00	0.00	0.00	0.07	0.00
Reduction Factors for Core Making										**1.04**	**0.45**	**2.40**	**1.80**	**0.11**	**0.25**	**0.00**

Total Limited Emissions (tons/yr): 6.05

Pollutant	Cold Box Release Factor	No-bake Release Factor	Warm Box Release Factor
Phenol	0.00%	0.00%	N/A
Formaldehyde	2.00%	2.00%	5.00%
MDI	0.00%	0.00%	N/A
Polymeric MDI	0.00%	0.00%	N/A
Naphthalene	3.25%	5.85%	N/A
1,2,4 Trimethylbenzene	3.25%	5.85%	N/A
Xylene	3.25%	5.85%	N/A
Cumene	3.25%	5.85%	N/A
Methanol	N/A	N/A	100.00%

METHODOLOGY
HAP Emissions from Resins = Limited Usage Rate (tons/yr) * % HAP * Reduction Factor (%)
HAP Emissions from Catalysts = Limited Usage Rate (tons/yr) * % HAP
Reduction factors obtained from the American Foundrymen's Society Publication entitled "Form R Reporting of Binder Chemicals used in Foundries", and refers to the weight percent of HAP that is emitted to the atmosphere.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-03
Electric Induction Furnaces

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	40000	20	Control Device:	39-DC-4
			Control Efficiency:	80.00%
Iron	Limited Throughput LBS/HR	Limited Throughput TON/HR		
	11416	5.71		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	0.68	0.53	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/hr	13.60	10.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	326.40	254.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**59.57**	**46.43**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.78	0.61	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	18.63	14.52	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**3.40**	**2.65**	**0.00**	**0.00**	**0.00**	**0.00**

Note: PM and PM10 emission factors from IDEM approved stack test performed on December 10, 2005. PM and PM10 emissions will be limited to 0.57 and 0.33 lb/ton for melting and charging to render 326 IAC 2-2(PSD) not applicable.
Lead emission factor from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.24.

SCC# 3-04-003-15
Charge Handling

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	40000	20	Control Device:	N/A
			Control Efficiency:	N/A
Metal	Limited Throughput LBS/HR	Limited Throughput TON/HR		
	11416	5.71		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	0.60	0.36	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/hr	12.00	7.20	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	288.00	172.80	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**52.56**	**31.54**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	3.42	2.05	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	82.19	49.32	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**15.00**	**9.00**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-20
A-Line Pouring

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	48000	24	Control Device:	N/A
			Control Efficiency:	N/A
Iron	Limited Throughput LBS/HR	Limited Throughput TON/HR		
	11416	5.71		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	1.0	2.06	0.02	0.01	0.14	6.00
Potential Uncontrolled Emissions lbs/hr	24.00	49.44	0.48	0.24	3.36	144.00
Potential Uncontrolled Emissions lbs/day	576.00	1186.56	11.52	5.76	80.64	3456.00
Potential Uncontrolled Emissions tons/year	**105.12**	**216.55**	**2.10**	**1.05**	**14.72**	**630.72**
Potential Controlled Emissions lbs/hr	5.71	11.76	0.11	0.06	0.80	34.25
Potential Controlled Emissions lbs/day	136.99	282.19	2.74	1.37	19.18	821.92
Potential Controlled Emissions tons/year	**25.00**	**51.50**	**0.50**	**0.25**	**3.50**	**150.00**

Note: PM emission factor from IDEM approved stack test.
All other emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.
CO emission factor based on best available information for CO emissions from pouring, cooling, and shakeout operations. These emissions represent total emissions from A-Line pouring, cooling and shakeout combined.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-25
A-Line Cooling

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	48000	24	Control Device:	N/A
			Control Efficiency:	N/A
Iron	Limited Throughput LBS/HR	Limited Throughput TON/HR		
	11416	5.71		

	PM lbs/ton metal charged 1.4	PM10 lbs/ton metal charged 1.4	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 0.0	CO lbs/ton metal charged see above
Potential Uncontrolled Emissions lbs/hr	33.60	33.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	806.40	806.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**147.17**	**147.17**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	7.99	7.99	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	191.78	191.78	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**35.00**	**35.00**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-31
A-Line Shakeout

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	48000	24	Control Device:	36-1-DC-8
			Control Efficiency:	89.10%
Iron	Limited Throughput LBS/HR	Limited Throughput TON/HR		
	11416	5.71		

	PM lbs/ton metal charged 3.2	PM10 lbs/ton metal charged 2.24	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 1.2	CO lbs/ton metal charged see above
Potential Uncontrolled Emissions lbs/hr	76.80	53.76	0.00	0.00	28.80	0.00
Potential Uncontrolled Emissions lbs/day	1843.20	1290.24	0.00	0.00	691.20	0.00
Potential Uncontrolled Emissions tons/year	**336.38**	**235.47**	**0.00**	**0.00**	**126.14**	**0.00**
Potential Controlled Emissions lbs/hr	1.99	1.39	0.00	0.00	6.85	0.00
Potential Controlled Emissions lbs/day	47.78	33.45	0.00	0.00	164.38	0.00
Potential Controlled Emissions tons/year	**8.72**	**6.10**	**0.00**	**0.00**	**30.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
A-Line Muller & Sand Handling

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	400000	200	Control Device:	36-1-DC-8
			Control Efficiency:	97.02%
Sand	Limited Throughput	Limited Throughput TONS/HR		
	105982	53		

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.0	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	720.00	108.00	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	17280.00	2592.00	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**3153.60**	**473.04**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	5.68	0.85	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	136.44	20.47	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**24.90**	**3.73**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-20
B-Line Pouring

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	18000	9	Control Device:	N/A
			Control Efficiency:	N/A
Iron	Limited Throughput	TONS/HR		
	7192	3.60		

	PM lbs/ton metal charged 4.2	PM10 lbs/ton metal charged 2.06	SOx lbs/ton metal charged 0.02	NOx lbs/ton metal charged 0.01	VOC lbs/ton metal charged 0.14	CO lbs/ton metal charged 6.00
Potential Uncontrolled Emissions lbs/hr	37.80	18.54	0.18	0.09	1.26	54.00
Potential Uncontrolled Emissions lbs/day	907.20	444.96	4.32	2.16	30.24	1296.00
Potential Uncontrolled Emissions tons/year	**165.56**	**81.21**	**0.79**	**0.39**	**5.52**	**236.52**
Potential Controlled Emissions lbs/hr	15.10	7.41	0.07	0.04	0.50	21.58
Potential Controlled Emissions lbs/day	362.47	177.78	1.73	0.86	12.08	517.81
Potential Controlled Emissions tons/year	**66.15**	**32.45**	**0.32**	**0.16**	**2.21**	**94.50**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.
CO emission factor based on best available information for CO emissions from pouring, cooling, and shakeout operations. These emissions represent total emissions from B-Line pouring, cooling and shakeout combined.

SCC# 3-04-003-25
B-Line Cooling

	Throughput LBS/HR	Throughput TON/HR		
TYPE OF MATERIAL	18000	9	Control Device:	N/A
			Control Efficiency:	N/A
Iron	Limited Throughput	TONS/HR		
	7192	3.60		

	PM lbs/ton metal charged 1.4	PM10 lbs/ton metal charged 1.4	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 0.0	CO lbs/ton metal charged see above
Potential Uncontrolled Emissions lbs/hr	12.60	12.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	302.40	302.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**55.19**	**55.19**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	5.03	5.03	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	120.82	120.82	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**22.05**	**22.05**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-31
B-Line Shakeout

	Throughput LBS/HR	Throughput TON/HR		
TYPE OF MATERIAL	18000	9	Control Device:	36-1-DC-7
			Control Efficiency:	79.20%
Iron	Limited Throughput	TONS/HR		
	7192	3.60		

	PM lbs/ton metal charged 3.2	PM10 lbs/ton metal charged 2.24	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 1.2	CO lbs/ton metal charged see above
Potential Uncontrolled Emissions lbs/hr	28.80	20.16	0.00	0.00	10.80	0.00
Potential Uncontrolled Emissions lbs/day	691.20	483.84	0.00	0.00	259.20	0.00
Potential Uncontrolled Emissions tons/year	**126.14**	**88.30**	**0.00**	**0.00**	**47.30**	**0.00**
Potential Controlled Emissions lbs/hr	2.39	1.68	0.00	0.00	4.32	0.00
Potential Controlled Emissions lbs/day	57.44	40.21	0.00	0.00	103.56	0.00
Potential Controlled Emissions tons/year	**10.48**	**7.34**	**0.00**	**0.00**	**18.90**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-50
B-Line Muller & Sand Handling

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	200000	100	Control Device:	36-1-DC-7
Sand			Control Efficiency:	97.02%
	Limited Throughput	TONS/HR		
	29680	14.8		

	PM lbs/ton sand handled	PM10 lbs/ton sand handled	SOx lbs/ton sand handled	NOx lbs/ton sand handled	VOC lbs/ton sand handled	CO lbs/ton sand handled
	3.6	0.54	0.0	0.0	0.0	0.0
Potential Uncontrolled Emissions lbs/hr	360.00	54.00	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	8640.00	1296.00	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**1576.80**	**236.52**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	1.59	0.24	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	38.21	5.73	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**6.97**	**1.05**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-20
Floor Pouring

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	12000	6	Control Device:	N/A
Iron			Control Efficiency:	N/A
	Limited Throughput	TONS/HR		
	12000	6.0		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	4.2	2.06	0.02	0.01	0.14	6.00
Potential Uncontrolled Emissions lbs/hr	25.20	12.36	0.12	0.06	0.84	36.00
Potential Uncontrolled Emissions lbs/day	604.80	296.64	2.88	1.44	20.16	864.00
Potential Uncontrolled Emissions tons/year	**110.38**	**54.14**	**0.53**	**0.26**	**3.68**	**157.68**
Potential Controlled Emissions lbs/hr	25.20	12.36	0.12	0.06	0.84	36.00
Potential Controlled Emissions lbs/day	604.80	296.64	2.88	1.44	20.16	864.00
Potential Controlled Emissions tons/year	**110.38**	**54.14**	**0.53**	**0.26**	**3.68**	**157.68**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.
CO emission factor based on best available information for CO emissions from pouring, cooling, and shakeout operations. These emissions represent total emissions from Floor pouring, cooling and shakeout combined.

SCC# 3-04-003-25
Floor Cooling

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	12000	6	Control Device:	N/A
Iron			Control Efficiency:	N/A
	Limited Throughput	TONS/HR		
	12000	6.0		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	1.4	1.4	0.0	0.0	0.0	see above
Potential Uncontrolled Emissions lbs/hr	8.40	8.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	201.60	201.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**36.79**	**36.79**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	8.40	8.40	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	201.60	201.60	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**36.79**	**36.79**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-31
Floor Shakeout

TYPE OF MATERIAL	Maximum Throughput LBS/HR	Maximum Throughput TON/HR	Limited Throughput TONS/HR
Iron	12000	6	6.0

Control Device: N/A
Control Efficiency: N/A

	PM lbs/ton metal charged 3.2	PM10 lbs/ton metal charged 2.24	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 1.2	CO lbs/ton metal charged see above
Potential Uncontrolled Emissions lbs/hr	19.20	13.44	0.00	0.00	7.20	0.00
Potential Uncontrolled Emissions lbs/day	460.80	322.56	0.00	0.00	172.80	0.00
Potential Uncontrolled Emissions tons/year	**84.10**	**58.87**	**0.00**	**0.00**	**31.54**	**0.00**
Potential Controlled Emissions lbs/hr	19.20	13.44	0.00	0.00	7.20	0.00
Potential Controlled Emissions lbs/day	460.80	322.56	0.00	0.00	172.80	0.00
Potential Controlled Emissions tons/year	**84.10**	**58.87**	**0.00**	**0.00**	**31.54**	**0.00**

Note: PM, PM10 and VOC Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.24.

SCC# 3-04-003-31
Floor Knockout

TYPE OF MATERIAL	Maximum Throughput LBS/HR	Maximum Throughput TON/HR
Iron	30000	15

Control Device: 8-DC-2
Control Efficiency: 79.20%

	PM lbs/ton metal charged 3.2	PM10 lbs/ton metal charged 2.24	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 1.2	CO lbs/ton metal charged 0.0
Potential Uncontrolled Emissions lbs/hr	48.00	33.60	0.00	0.00	18.00	0.00
Potential Uncontrolled Emissions lbs/day	1152.00	806.40	0.00	0.00	432.00	0.00
Potential Uncontrolled Emissions tons/year	**210.24**	**147.17**	**0.00**	**0.00**	**78.84**	**0.00**
Potential Controlled Emissions lbs/hr	9.98	6.99	0.00	0.00	18.00	0.00
Potential Controlled Emissions lbs/day	239.62	167.73	0.00	0.00	432.00	0.00
Potential Controlled Emissions tons/year	**43.73**	**30.61**	**0.00**	**0.00**	**78.84**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
High Speed Continuous Sand Mixer & Floor Sand Handling

TYPE OF MATERIAL	Maximum Throughput LBS/HR	Maximum Throughput TON/HR	Limited Throughput TONS/HR
Sand	84000	42	4.86

Control Device: 30-DC-6
Control Efficiency: 99.90%

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.00	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	151.20	22.68	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	3628.80	544.32	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**662.26**	**99.34**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.02	0.00	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	0.42	0.06	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**0.08**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**

Note: PM and PM10 emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Cold Box Sand Mixer & Sand Handling

TYPE OF MATERIAL	Throughput LBS/HR	Throughput TON/HR	Control Device:	36-1-DC-7
			Control Efficiency:	74.25%
Sand	11600.0	5.8		

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.00	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	20.88	3.13	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	501.12	75.17	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**91.45**	**13.72**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	5.38	0.81	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	129.04	19.36	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**23.55**	**3.53**	**0.00**	**0.00**	**0.00**	**0.00**

Note: PM and PM10 emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
No-bake Large & Small Core Mixer & Sand Handling

TYPE OF MATERIAL	Maximum Throughput LBS/HR	Maximum Throughput TON/HR	Control Device:	36-1-DC-7
	12000	6	Control Efficiency:	74.25%
Sand	Limited Throughput	TONS/HR		
	12000	6.00		

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.00	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	21.60	3.24	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	518.40	77.76	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**94.61**	**14.19**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	5.56	0.83	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	133.49	20.02	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**24.36**	**3.65**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
Warm Box Sand Handling

TYPE OF MATERIAL	Maximum Throughput LBS/HR	Maximum Throughput TON/HR	Control Device:	36-1-DC-7
	10000	5	Control Efficiency:	74.25%
Sand	Limited Throughput	TONS/HR		
	10000	5.00		

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.00	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	18.00	2.70	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	432.00	64.80	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**78.84**	**11.83**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	4.64	0.70	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	111.24	16.69	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**20.30**	**3.05**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-60
Controlled machining

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	40000	20	Control Device:	8-DC-2 and 8-DC-1
			Control Efficiency:	89.10%
	Limited Throughput			
Iron		TONS/HR		
		5.71		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	0.01	0.0045	0.0	0.0	0.0	0.0
Potential Uncontrolled Emissions lbs/hr	0.20	0.09	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	4.80	2.16	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**0.88**	**0.39**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.01	0.00	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	0.15	0.07	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**0.03**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-60
Uncontrolled machining

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	40000	20	Control Device:	N/A
			Control Efficiency:	N/A
	Limited Throughput			
Iron		TONS/HR		
		5.71		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	0.01	0.0045	0.0	0.0	0.0	0.0
Potential Uncontrolled Emissions lbs/hr	0.20	0.09	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	4.80	2.16	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**0.88**	**0.39**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.06	0.03	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	1.37	0.62	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**0.25**	**0.11**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-40
Shotblast Operations - Wheelabrator Shot Blast Machine

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	62000	31	Control Device:	36-DC-8
			Control Efficiency:	97.90%
	Limited Throughput			
Iron		TONS/HR		
		8.13		

	PM lbs/ton metal charged	PM10 lbs/ton metal charged	SOx lbs/ton metal charged	NOx lbs/ton metal charged	VOC lbs/ton metal charged	CO lbs/ton metal charged
	17.0	1.7	0.0	0.0	0.0	0.0
Potential Uncontrolled Emissions lbs/hr	527.00	52.70	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	12648.00	1264.80	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**2308.26**	**230.83**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	2.90	0.29	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	69.57	6.96	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**12.70**	**1.27**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-40
Chill Iron Shotblasting Operation

TYPE OF MATERIAL	Throughput LBS/HR	Throughput TON/HR	Control Device:	8-DC-2
			Control Efficiency:	98.01%
Iron	3500.00	1.75		

	PM lbs/ton metal charged 17.0	PM10 lbs/ton metal charged 1.7	SOx lbs/ton metal charged 0.0	NOx lbs/ton metal charged 0.0	VOC lbs/ton metal charged 0.0	CO lbs/ton metal charged 0.0
Potential Uncontrolled Emissions lbs/hr	29.75	2.98	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	714.00	71.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**130.31**	**13.03**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.59	0.06	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	14.21	1.42	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**2.59**	**0.26**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-03-024-01
New Scrap Handling - Crusher

TYPE OF MATERIAL	Throughput LBS/HR	Throughput TON/HR	Control Device:	39-DC-5
			Control Efficiency:	89.91%
Metal	30000	15		

	PM lbs/ton metal charged 0.5	PM10 lbs/ton metal charged 0.05	SOx lbs/ton metal charged 0.00	NOx lbs/ton metal charged 0.00	VOC lbs/ton metal charged 0.00	CO lbs/ton metal charged 0.00
Potential Uncontrolled Emissions lbs/hr	7.50	0.75	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	180.00	18.00	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**32.85**	**3.29**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.76	0.08	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	18.16	1.82	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**3.31**	**0.33**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-31
Scrap Handling - Rotary Reclaimer

TYPE OF MATERIAL	Throughput LBS/HR	Throughput TON/HR	Control Device:	36-DC-5
			Control Efficiency:	98.90%
Metal	30000	15		

	PM lbs/ton metal charged 3.2	PM10 lbs/ton metal charged 2.24	SOx lbs/ton metal charged 0.00	NOx lbs/ton metal charged 0.00	VOC lbs/ton metal charged 0.00	CO lbs/ton metal charged 0.00
Potential Uncontrolled Emissions lbs/hr	48.00	33.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	1152.00	806.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**210.24**	**147.17**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.53	0.37	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	12.66	8.86	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**2.31**	**1.62**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Grey Iron Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

SCC# 3-04-003-50
Raw Sand Storage Silo

	Maximum Throughput LBS/HR	Maximum Throughput TON/HR		
TYPE OF MATERIAL	20000	10	Control Device:	39-DC-5
Sand			Control Efficiency:	98.90%
	Limited Throughput	TONS/HR		
		4.86		

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.0	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	36.00	5.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	864.00	129.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**157.68**	**23.65**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.19	0.03	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	4.61	0.69	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**0.84**	**0.13**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
Spent Sand Storage Silo

	Maximum Throughput TONS/HR		
TYPE OF MATERIAL		Control Device:	39-DC-5
Sand	10	Control Efficiency:	98.90%

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.0	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	36.00	5.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	864.00	129.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**157.68**	**23.65**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	0.40	0.06	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	9.50	1.42	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**1.73**	**0.26**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

SCC# 3-04-003-50
Sand Conveyor

	Maximum Throughput TONS/HR		
TYPE OF MATERIAL		Control Device:	39-DC-5
Sand	10	Control Efficiency:	89.91%

	PM lbs/ton sand handled 3.6	PM10 lbs/ton sand handled 0.54	SOx lbs/ton sand handled 0.0	NOx lbs/ton sand handled 0.0	VOC lbs/ton sand handled 0.0	CO lbs/ton sand handled 0.0
Potential Uncontrolled Emissions lbs/hr	36.00	5.40	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions lbs/day	864.00	129.60	0.00	0.00	0.00	0.00
Potential Uncontrolled Emissions tons/year	**157.68**	**23.65**	**0.00**	**0.00**	**0.00**	**0.00**
Potential Controlled Emissions lbs/hr	3.63	0.54	0.00	0.00	0.00	0.00
Potential Controlled Emissions lbs/day	87.18	13.08	0.00	0.00	0.00	0.00
Potential Controlled Emissions tons/year	**15.91**	**2.39**	**0.00**	**0.00**	**0.00**	**0.00**

Note: Emission factors from USEPA's Factor Information Retrieval (FIRE) Data System, version 6.23.

Appendix A: Emission Calculations
HAP Emissions from Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

* * Process Emissions * *

Process	Maximum Rate (tons iron/hr)	Limited Rate** (tons iron/hr)	PM emission factor lb/ton	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Control Device	Control Efficiency (%)
Charge Handling	20	5.71	0.60	chromium	0.00023	0.020	0.006	N/A	
SCC# 3-04-003-15				nickel	0.00040	0.035	0.010		
AP-42 Ch. 12.10				arsenic	0.00008	0.007	0.002		
				Lead	0.00231	0.202	0.058		
				Manganese	0.01860	1.629	0.465		
				Antimony	0.00111	0.097	0.028		
				TOTAL	**0.02273**	**1.99**	**0.57**		
Melting - Electric	20	5.71	0.68	chromium	0.00026	0.023	0.001	39-DC-4	80.00%
Induction Furnaces*			stack test	nickel	0.00046	0.040	0.002	39-DC-4	80.00%
EPA SCC# 3-04-003-03				arsenic	0.00009	0.008	0.000	39-DC-4	80.00%
AP-42 Ch. 12.10				Lead	0.05450	4.774	0.273	39-DC-4	80.00%
				Manganese	0.02108	1.847	0.105	39-DC-4	80.00%
				Antimony	0.00126	0.110	0.006	39-DC-4	80.00%
				TOTAL	**0.07764**	**6.80**	**0.39**		
A-Line Pouring	24.0	4.00	1.00	chromium	0.00038	0.040	0.007	N/A	
SCC# 3-04-003-18			stack test	nickel	0.00067	0.070	0.012		
				arsenic	0.00013	0.014	0.002		
				Lead	0.00385	0.405	0.067		
				Manganese	0.03100	3.259	0.543		
				Antimony	0.00185	0.194	0.032		
				TOTAL	**0.03788**	**3.98**	**0.66**		
A-Line Cooling	24.0	4.00	1.40	chromium	0.00053	0.056	0.009	N/A	
SCC# 3-04-003-18				nickel	0.00094	0.099	0.016		
				arsenic	0.00018	0.019	0.003		
				Lead	0.00539	0.567	0.094		
				Manganese	0.04340	4.562	0.760		
				Antimony	0.00259	0.272	0.045		
				TOTAL	**0.05303**	**5.57**	**0.93**		
A-Line Shakeout	24.0	4.00	3.20	chromium	0.00122	0.128	0.002	36-1-DC-8	89.10%
SCC# 3-04-003-31				nickel	0.00214	0.225	0.004	36-1-DC-8	89.10%
AP-42 Ch. 12.10				arsenic	0.00042	0.044	0.001	36-1-DC-8	89.10%
				Lead	0.01232	1.295	0.024	36-1-DC-8	89.10%
				Manganese	0.09920	10.428	0.189	36-1-DC-8	89.10%
				Antimony	0.00592	0.622	0.011	36-1-DC-8	89.10%
				TOTAL	**0.12122**	**12.74**	**0.23**		
B-Line Pouring	9.0	1.14	4.20	chromium	0.00160	0.063	0.008	N/A	
SCC# 3-04-003-18				nickel	0.00281	0.111	0.014		
				arsenic	0.00055	0.022	0.003		
				Lead	0.01617	0.637	0.081		
				Manganese	0.13020	5.132	0.651		
				Antimony	0.00777	0.306	0.039		
				TOTAL	**0.15910**	**6.27**	**0.80**		
B-Line Cooling	9.0	1.14	1.40	chromium	0.00053	0.021	0.003	N/A	
SCC# 3-04-003-18				nickel	0.00094	0.037	0.005		
				arsenic	0.00018	0.007	0.001		
				Lead	0.00539	0.212	0.027		
				Manganese	0.04340	1.711	0.217		
				Antimony	0.00259	0.102	0.013		
				TOTAL	**0.05303**	**2.09**	**0.27**		
B-Line Shakeout	9.0	1.14	3.20	chromium	0.00122	0.048	0.001	36-1-DC-7	79.20%
SCC# 3-04-003-31				nickel	0.00214	0.085	0.002	36-1-DC-7	79.20%
AP-42 Ch. 12.10				arsenic	0.00042	0.016	0.000	36-1-DC-7	79.20%
				Lead	0.01232	0.486	0.013	36-1-DC-7	79.20%
				Manganese	0.09920	3.910	0.103	36-1-DC-7	79.20%
				Antimony	0.00592	0.233	0.006	36-1-DC-7	79.20%
				TOTAL	**0.12122**	**4.78**	**0.13**		
Floor Pouring	6.0	0.57	4.20	chromium	0.00160	0.042	0.004	N/A	
SCC# 3-04-003-18				nickel	0.00281	0.074	0.007		
				arsenic	0.00055	0.014	0.001		
				Lead	0.01617	0.425	0.040		
				Manganese	0.13020	3.422	0.326		
				Antimony	0.00777	0.204	0.019		
				TOTAL	**0.15910**	**4.18**	**0.40**		
Floor Cooling	6.0	0.57	1.40	chromium	0.00053	0.014	0.001	N/A	
SCC# 3-04-003-18				nickel	0.00094	0.025	0.002		
				arsenic	0.00018	0.005	0.000		
				Lead	0.00539	0.142	0.013		
				Manganese	0.04340	1.141	0.109		
				Antimony	0.00259	0.068	0.006		
				TOTAL	**0.05303**	**1.39**	**0.13**		

Appendix A: Emission Calculations
HAP Emissions from Foundry Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

* * Process Emissions (cont'd.)* *

Process	Maximum Rate (tons iron/hr)	Limited Rate** (tons iron/hr)	PM emission factor lb/ton	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Control Device	Control Efficiency (%)
Floor Shakeout	6.0	0.57	3.20	chromium	0.00122	0.032	0.003	N/A	
SCC# 3-04-003-31				nickel	0.00214	0.056	0.005		
AP-42 Ch. 12.10				arsenic	0.00042	0.011	0.001		
				Lead	0.01232	0.324	0.031		
				Manganese	0.09920	2.607	0.248		
				Antimony	0.00592	0.156	0.015		
				TOTAL	**0.12122**	**3.19**	**0.30**		
Floor Knockout	15.0	0.57	3.20	chromium	0.00122	0.080	0.001	8-DC-2	79.20%
SCC# 3-04-003-31				nickel	0.00214	0.141	0.001	8-DC-2	79.20%
AP-42 Ch. 12.10				arsenic	0.00042	0.027	0.000	8-DC-2	79.20%
				Lead	0.01232	0.809	0.006	8-DC-2	79.20%
				Manganese	0.09920	6.517	0.052	8-DC-2	79.20%
				Antimony	0.00592	0.389	0.003	8-DC-2	79.20%
				TOTAL	**0.12122**	**7.96**	**0.06**		
Scrap Handling	15	4.57	3.2	chromium	0.00122	0.080	0.000	39-DC-5	98.90%
Rotary Reclaimer				nickel	0.00214	0.141	0.000	39-DC-5	98.90%
SCC# 3-04-003-31				arsenic	0.00042	0.027	0.000	39-DC-5	98.90%
AP-42 Ch. 12.10				Lead	0.01232	0.809	0.003	39-DC-5	98.90%
				Manganese	0.09920	6.517	0.022	39-DC-5	98.90%
				Antimony	0.00592	0.389	0.001	39-DC-5	98.90%
				TOTAL	**0.12122**	**7.96**	**0.03**		
Wheelabrator Shot Blast	31	5.71	17.00	chromium	0.00646	0.877	0.003	36-DC-8	97.90%
SCC# 3-04-003-40				nickel	0.01139	1.547	0.006	36-DC-8	97.90%
AP-42 Ch. 12.10				arsenic	0.00221	0.300	0.001	36-DC-8	97.90%
				Lead	0.06545	8.887	0.034	36-DC-8	97.90%
				Manganese	0.52700	71.556	0.277	36-DC-8	97.90%
				Antimony	0.03145	4.270	0.017	36-DC-8	97.90%
				TOTAL	**0.64396**	**87.44**	**0.34**		
Chill Iron Shot Blast	1.75	0.11	17.00	chromium	0.00646	0.050	0.000	8-DC-2	98.01%
SCC# 3-04-003-40				nickel	0.01139	0.087	0.000	8-DC-2	98.01%
AP-42 Ch. 12.10				arsenic	0.00221	0.017	0.000	8-DC-2	98.01%
				Lead	0.06545	0.502	0.001	8-DC-2	98.01%
				Manganese	0.52700	4.039	0.005	8-DC-2	98.01%
				Antimony	0.03145	0.241	0.000	8-DC-2	98.01%
				TOTAL	**0.64396**	**4.94**	**0.006**		

* Note: HAP emission factors for the electric induction furnaces are based on the PM emission factor from IDEM approved stack test performed on December 10, 2005 and percent of PM that is HAP based on information from SPECIATE, v 3.1. Lead emission factor from FIRE version 6.24.
**Limited metal throughput rates are not all included as limits in the permit. They are based on information from Weil-McLain on actual throughputs and are used to establish the HAP emission limits in the permit in tons/yr.
HAP emission factors for A-Line pouring are based on PM emission factor used in Title V permit from previous in-house stack test and the percent of PM that is HAP based on information from SPECIATE, v 3.1.
All other HAP emission factors are based on the AP-42 emission factors for PM and the percent of PM that is HAP based on information from SPECIATE, v 3.1.

USEPA Speciate v 3.1 Data	
Metal	Gen. Foundry
Manganese	3.100%
Chromium	0.038%
Nickel	0.067%
Arsenic	0.013%
Antimony	0.185%
Lead	0.385%

Total Potential Emissions Before Controls

chromium	1.57	tons/year
nickel	2.77	tons/year
arsenic	0.54	tons/year
Lead	20.48	tons/year
Manganese	128.28	tons/year
Antimony	7.66	tons/year
Total	**161.29**	**tons/year**

Total Limited Emissions After Controls

0.05	tons/year
0.09	tons/year
0.02	tons/year
0.76	tons/year
4.07	tons/year
0.24	tons/year
5.23	**tons/year**

Methodology:
Ef = Emission factor
Ebc = Potential Emissions before controls = Rate (units/hr) x Ef(lbs/unit) x 8760 hrs/yr / 2000 lbs/hr
Eac = Potential Emissions after controls = (1-effiency/100) x Ebc
1 lb = 2000 tons

Appendix A: Grey Iron Foundry Operations
Potential HAP Emission Calculations - Pouring, Cooling and Shakeou

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No. 091-20949
Plt. ID #: 091-00020

Material	Maximum Usage (tons/yr)	Acrolein EF (lb/lb)	Benzene EF (lb/lb)	Formaldehyde EF (lb/lb)	Hydrogen Cyanide EF (lb/lb)	Xylenes EF (lb/lb)	Naphthalene EF (lb/lb)	Phenol EF (lb/lb)	Toluene EF (lb/lb)	Total Aromatic Amines EF (lb/lb)	Total Aldehydes EF (lb/lb)	Potential Acrolein Emissions (ton/yr)	Potential Benzene Emissions (ton/yr)	Potential Formaldehyde Emissions (ton/yr)	Potential HCN Emissions (ton/yr)	Potential Xylenes Emissions (ton/yr)	Potential Naphthalene Emissions (ton/yr)	Potential Phenol Emissions (ton/yr)	Potential Toluene Emissions (ton/yr)	Potential Aromatic Amines Emissions (ton/yr)	Potential Aldehyde Emissions (ton/yr)
Cold Box Core Making - A & B Lines Pouring, Cooling and Shakeou																					
Cold Box Resin Part I and Part II	897.90	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.028	4.805	0.020	0.945	0.513	0.020	3.505	0.748	0.315	0.197
No Bake Core/Mold Making - Floor Pouring, Cooling and Shakeou																					
No-bake Resin Part I and Part II	1392.84	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.043	7.453	0.031	1.467	0.795	0.031	5.438	1.160	0.489	0.305
High Speed Cont. Sand Mixer - Floor Pouring, Cooling and Shakeou																					
No-bake Resin Part I and Part II	601.81	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.019	3.220	0.013	0.634	0.344	0.013	2.349	0.501	0.211	0.132
Green Sand Molding - A Line Pouring, Cooling and Shakeou																					
Seacoal	1,000.00	0.000002	0.000611	0.000004	0.000118	0.000042	0.000021	0.000131	0.000063	0.000021	0.000063	0.002	0.611	0.004	0.118	0.042	0.021	0.131	0.063	0.021	0.063
Green Sand Molding - B Line Pouring, Cooling and Shakeou																					
Seacoal	325.00	0.000002	0.000611	0.000004	0.000118	0.000042	0.000021	0.000131	0.000063	0.000021	0.000063	0.001	0.199	0.001	0.038	0.014	0.007	0.043	0.020	0.007	0.020
												0.09	**16.29**	**0.07**	**3.20**	**1.71**	**0.09**	**11.47**	**2.49**	**1.04**	**0.72**

Total Potential Emissions (tons/yr) **37.17**

METHODOLOGY
Emission factors from the 1994 Modern Casting article titled "Calculating Emission Factors for Pouring, Cooling and Shakeout" by Gary Mosher.
HAP Emissions = Limited Resin Usage Rate (tons/yr) * 2000 lbs/ton * EF (lb/lb) * 1 tons/2000 lbs

Appendix A: Grey Iron Foundry Operations
Limited HAP Emission Calculations - Pouring, Cooling and Shakeou

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No. 091-20949
Plt. ID #: 091-00020

Material	Limited Usage (tons/yr)	Acrolein EF (lb/lb)	Benzene EF (lb/lb)	Formaldehyde EF (lb/lb)	Hydrogen Cyanide EF (lb/lb)	Xylenes EF (lb/lb)	Naphthalene EF (lb/lb)	Phenol EF (lb/lb)	Toluene EF (lb/lb)	Total Aromatic Amines EF (lb/lb)	Total Aldehydes EF (lb/lb)	Limited Acrolein Emissions (ton/yr)	Limited Benzene Emissions (ton/yr)	Limited Formaldehyde Emissions (ton/yr)	Limited HCN Emissions (ton/yr)	Limited Xylenes Emissions (ton/yr)	Limited Naphthalene Emissions (ton/yr)	Limited Phenol Emissions (ton/yr)	Limited Toluene Emissions (ton/yr)	Limited Aromatic Amines Emissions (ton/yr)	Limited Aldehyde Emissions (ton/yr)
Cold Box Core Making - A & B Lines Pouring, Cooling and Shakeou																					
Cold Box Resin Part I and Part II	80.00	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.002	0.428	0.002	0.084	0.046	0.002	0.312	0.067	0.028	0.018
No Bake Core/Mold Making - Floor Pouring, Cooling and Shakeou																					
No-bake Resin Part I and Part II	40.00	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.001	0.214	0.001	0.042	0.023	0.001	0.156	0.033	0.014	0.009
High Speed Cont. Sand Mixer - Floor Pouring, Cooling and Shakeou																					
No-bake Resin Part I and Part II	80.00	0.000031	0.005351	0.000022	0.001053	0.000571	0.000022	0.003904	0.000833	0.000351	0.000219	0.002	0.428	0.002	0.084	0.046	0.002	0.312	0.067	0.028	0.018
Green Sand Molding - A Line Pouring, Cooling and Shakeou																					
Seacoal	1,000.00	0.000002	0.000611	0.000004	0.000118	0.000042	0.000021	0.000131	0.000063	0.000021	0.000063	0.002	0.611	0.004	0.118	0.042	0.021	0.131	0.063	0.021	0.063
Green Sand Molding - B Line Pouring, Cooling and Shakeou																					
Seacoal	325.00	0.000002	0.000611	0.000004	0.000118	0.000042	0.000021	0.000131	0.000063	0.000021	0.000063	0.001	0.199	0.001	0.038	0.014	0.007	0.043	0.020	0.007	0.020
												0.01	**1.88**	**0.01**	**0.37**	**0.17**	**0.03**	**0.95**	**0.25**	**0.10**	**0.13**

Total Limited Emissions (tons/yr): **3.90**

METHODOLOGY
Emission factors from the 1994 Modern Casting article titled "Calculating Emission Factors for Pouring, Cooling and Shakeout" by Gary Mosher.
HAP Emissions = Limited Resin Usage Rate (tons/yr) * 2000 lbs/ton * EF (lb/lb) * 1 tons/2000 lbs

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Emergency Generators (>250 and <600 HP)
Reciprocating

Company Name: Weil-McLain
Plant Location: 500 Blaine Street, Michigan City, IN 46360-2388
County: LaPorte
Permit Reviewer: Trish Earls
Permit Modification No.: 091-20949
Plt. ID #: 091-00020

Emissions calculated based on heat input capacity (hp)

Heat Input Capacity hp		Heat Input Capacity MM Btu/hr
1600.0	Ajax generator	4.1
1170.0	Linemelt power generator	3.0
80.0	Linemelt control generator	0.2

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	2.20E-03	2.20E-03	2.05E-03	3.10E-02	2.50E-03	6.68E-03
Ajax Generator Potential Emission in tons/yr	0.88	0.88	0.82	12.40	1.00	2.67
Linemelt power Generator Potential Emissions in tons/yr	0.64	0.64	0.60	9.07	0.73	1.95
Linemelt control Generator Potential Emissions in tons/yr	0.04	0.04	0.04	0.62	0.05	0.13
Total	**1.57**	**1.57**	**1.46**	**22.09**	**1.78**	**4.76**

Methodology

Potential Througput (hp-hr/yr) = hp * 500 hr/yr
Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-1
Emission (tons/yr) = [Heat input rate (hp) x Emission Factor (lb/hp-hr)] * 500 hr/yr / (2,000 lb/ton)

*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

	HAPs				
	Benzene	Toluene	Xylenes	Propylene	1,3 Butadiene
Emission Factor in lb/mmBtu	9.3E-04	4.1E-04	2.9E-04	2.6E-03	3.9E-05
Combined Potential Emission in tons/yr	1.69E-03	7.41E-04	5.17E-04	4.68E-03	7.09E-05

	HAPs				
	Formaldehyde	Acetaldehyde	Acrolein	Naphthalene	Total
Emission Factor in lb/mmBtu	1.2E-03	7.7E-04	9.3E-05	8.5E-05	
Combined Potential Emission in tons/yr	2.14E-03	1.39E-03	1.68E-04	1.54E-04	1.15E-02

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-2
Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*500 hrs/yr / 2,000 lb/ton

Appendix A: Potential Emissions Calculations
Natural Gas Combustion
<100 MMBtu/hr
Preheater

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
12.98	113.7

Control Device: Dust collector 39-DC-4
Control Efficiency: 90.00%

Heat Input Capacity includes:
one Preheater

	Pollutant					
	PM*	PM10*	SO2	NOx**	VOC	CO
Emission Factor in lb/MMCF (natural gas combustion)	1.9	7.6	0.6	100.0	5.5	84.0
Uncontrolled Potential Emissions, tons/yr	0.11	0.43	3.4E-02	5.68	0.31	4.77
Controlled Potential Emissions, tons/yr	0.01	0.04	3.4E-02	5.68	0.31	4.77

Methodology:
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors for natural gas combustion are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emissions from natural gas combustion (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Preheater
HAPs Emissions

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.194E-04	6.820E-05	4.263E-03	1.023E-01	1.932E-04

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Uncontrolled Potential Emissions, tons/yr	2.842E-05	6.252E-05	7.957E-05	2.160E-05	1.194E-04	**0.11**
Controlled Potential Emissions, tons/yr	2.842E-06	6.252E-06	7.957E-06	2.160E-06	1.194E-05	**0.11**

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emission Calculations
Natural Gas Combustion
< 100 MMBtu/hr
Afterburner

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
1.4	12.3

Heat Input Capacity includes:
one (1) afterburner controlling VOC and HAP emissions from the Isocure core machine.

	Pollutant					
	PM*	PM10*	SO2	NOx**	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0	5.5	84.0
Potential Emission in tons/yr	0.01	0.05	0.00	0.61	0.03	0.52

Methodology:
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors for natural gas combustion are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emissions from natural gas combustion (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Afterburner
HAPs Emissions

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.288E-05	7.358E-06	4.599E-04	1.104E-02	2.085E-05

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	3.066E-06	6.745E-06	8.585E-06	2.330E-06	1.288E-05	**1.157E-02**

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Material	Process	Density (Lb/Gal)	Weight % Volatile (H20& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency
Black Paint	Spray Booth	8.42	72.31%	55.7%	16.6%	56.2%	24.00%	1.15300	3.20	1.40	1.61	38.75	7.07	2.94	5.83	75%
Butyl Cellosolve Solvent	Spray Booth	7.53	100.00%	0.0%	100.0%	0.0%	0.00%	0.00114	7.53	7.53	0.01	0.21	0.04	0.00	N/A	75%
Gray Paint	Dip Tank	10.05	58.59%	46.6%	12.0%	56.1%	26.99%	0.57711	2.75	1.21	0.70	16.76	3.06	0.00	4.48	100%
								Total Potential Emissions:			**2.32**	**55.71**	**10.17**	**2.94**		

	Control Efficiency: VOC	Control Efficiency: PM (Spray Booth)	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr
Total Controlled Emissions:	N/A	90.00%	**2.32**	**55.71**	**10.17**	**0.29**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

**There are no HAPs contained in any of the above coatings.

Appendix A: Emission Calculations
Single HAP Emission Limits for HAPs with Unrestricted PTE Greater Than 10 Tons Per Year and Combined HAP Emission Limits

Company Name: Weil-McLain
Address City IN Zip: 500 Blaine Street, Michigan City, IN 46360-2388
Permit Modification No.: 091-20949
Plt ID: 091-00020
Reviewer: Trish Earls

Unrestricted HAP emissions (tons/yr)

Unit				Lead	Manganese	Xylene	Ethylene Glycol	Phenol	Benzene	Total Metal HAPs*	Total Organic HAPs*
Furnaces				4.774	1.847					6.8	0
Charge Handling				0.202	1.629					1.99	0
A-Line P, C & S				2.267	18.249	0.569		3.571	5.111	22.29	12.521
B-Line P, C & S				1.335	10.753					13.14	
Floor P, C & S & Kn				1.7	13.687	1.139		7.787	10.673	16.72	24.648
High Speed Mixer						18.33				0	27.24
Cold Box Core making										0	0.4
No Bake Core making						2.74				0	6.4
Warm Box Core making							10.41	7.8		0	19.65
Wheelabrator shot blast				8.887	71.556					87.44	0
Scrap rotary reclaimer				0.809	6.517					7.96	0
Chill Iron shot blast				0.502	4.039					4.94	0
Preheater				2.84E-05	2.16E-05				1.19E-04	3.12E-04	0.107
Surface coating										0	0
Emergency generators						5.17E-04			1.69E-03	0	0.0231
Afterburner				3.07E-06	2.33E-06				1.29E-05	3.36E-05	0.0115
Total				**20.48**	**128.28**	**22.78**	**10.41**	**19.16**	**15.79**	**161.28**	**91.00**
									Total HAPs		**252.28**

*Note: Total metal HAPs and total organic HAPs include HAPs listed above and all other HAPs emitted at each emission unit not shown here.

Limited HAP emissions (tons/yr)

Unit	Limited metal throughput used as basis for limit (tons)	Limited Resin and/or Catalyst throughput used as basis for limit (lbs)	Limited seacoal throughput used as basis for limit (lbs)	Lead	Manganese	Xylene	Ethylene Glycol	Phenol	Benzene	Total Metal HAPs	Total Organic HAPs
Furnaces	50,000			2.32	0.66					2.43	0.00
Charge Handling	50,000			0.10	0.47					0.57	0.00
A-Line P, C & S	35,000	160,000 (resin)	2,000,000	1.10	3.04	0.569		1.85	2.41	3.71	2.41
B-Line P, C & S	10,000		650,000	0.65	1.36					1.67	
Floor P, C & S & Kn	5,000	240,000 (resin)		0.83	0.93	1.14		1.48	1.48	1.14	1.48
High Speed Mixer		160,000 (res) 20,000 (cat)				0.90				0.00	0.90
Cold Box Core making		160,000 (resin)								0.00	0.40
No Bake Core making		80,000 (res) 20,000 (cat)				0.80				0.00	0.80
Warm Box Core making		300,000 (res) 60,000 (cat)					5.22	4.03		0.00	5.22
Wheelabrator shot blast	50,000			3.52	3.00					3.52	0.00
Scrap rotary reclaimer	40,000			0.32	0.27					0.32	0.00
Surface coating	N/A									0.00	0.00
Chill Iron shot blast	1,000			0.20	0.17					0.20	0.00
Preheater	N/A			2.84E-05	2.16E-05				1.19E-04	3.12E-04	0.107
Emergency generators	N/A					5.17E-04			1.69E-03	0	0.0231
Afterburner	N/A			3.07E-06	2.33E-06				1.29E-05	3.36E-05	0.01
Total				**9.03**	**9.90**	**3.41**	**5.22**	**7.36**	**3.89**	**13.55**	**11.36**
									Total HAPs		**24.91**