



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
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NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a Part 70 Operating Permit

For INTAT Precision, Inc. in Rush County

Part 70 Operating Permit No.: T139-25610-00011

The Indiana Department of Environmental Management (IDEM), has received an application from INTAT Precision, Inc. located at 2148 State Road 3 North, Rushville, IN 46173 for a renewal to their Part 70 Operating Permit issued on September 2, 2003. IDEM's Office of Air Quality (OAQ) issues this type of permit to regulate the operation of sources that emit relatively large amounts of air pollution. This type of permit combines all of the requirements for controlling air pollution into one permit for the source, and requires the source to test equipment and keep records to ensure that the facility is following the requirements for controlling air pollution.

This draft Part 70 Operating Permit does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed or removed. This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Rushville Public Library
130 West Third Street
Rushville, IN 46173

A copy of the preliminary findings is available on the Internet at:
www.in.gov/idem/permits/air/pending.html.

How can you participate in this process?

The day after this announcement is published in a newspaper marks the beginning of a 30-day public comment period. During that 30-day period, you may comment on this draft permit. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM may hold a public hearing. If a public hearing is held, IDEM will make a separate announcement of the date, time, and location of that hearing. At a hearing, you would have an opportunity to submit written comments, make verbal

comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM. If you do not want to comment at this time, but would like to be added to IDEM's mailing list to receive notice of future action related to this permit application, please contact IDEM. Please refer to permit number T139-25610-00011 in all correspondence.

To Contact IDEM:

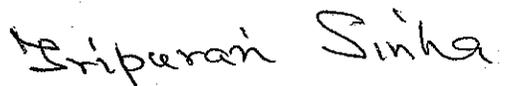
Joe Sachse
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension (4-5378)
Or dial directly: (317) 234-5378
E-mail: jsachse@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate, Indianapolis.

If you have any questions please contact Joe Sachse or my staff at the above address.


Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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DRAFT

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Indianapolis, Indiana 46204
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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**INTAT Precision, Inc.
2148 State Road 3 North
Rushville, Indiana 46173**

(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.: T139-25610-00011 | |
| Issued by: | Issuance Date: |
| Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality | Expiration Date: |

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**Appendix A: NESHAP for Iron and Steel Foundries [40 CFR Part 63, Subpart EEEEE]
[326 IAC 20-92]**

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 and ductile iron foundry.

| | |
|------------------------------|--|
| Source Address: | 2148 State Road 3 North, Rushville, Indiana 46173 |
| Mailing Address: | P.O. Box 488, Rushville, Indiana 46173 |
| General Source Phone Number: | (317) 932-5323 |
| SIC Code: | 3321 |
| County Location: | Rush |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Operating Permit Program Major Source, under PSD Rules Major 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) Core production facilities consisting of:

Three (3) Core Sand Bins and four (4) Isocure Cold Box Core Machines, identified as P4, P5, P6 and P7, each with a maximum capacity of processing 0.5 ton of core sand per hour, 8.0 pounds of resin per ton of core sand per hour, and 1.12 pounds of DMIPA catalyst per ton of core sand, utilizing a dust collector for particulate control, with P4, P5 and P6 constructed in 1988 and P7 constructed in 1994, and exhausting to stack No. 9.

(b) One (1) Gray and Ductile Iron Foundry Line, constructed in 1988, identified as Plant 1, consisting of the following:

(1) Melting and Finishing operations originally constructed in 1988 and modified in 2004, consisting of:

(A) One (1) Indoor Charge Handling System with a maximum capacity of 20 tons of metal per hour;

Note: The Power Control System at the plant limits the total maximum throughput of the Charge Handling System to 20 tons of metal per hour.

(B) One (1) Melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) Electric Induction Furnaces, identified as P1, P2 and P3, each with a maximum throughput capacity of 10 tons of metal per hour, utilizing two (2) baghouses for particulate control, identified as DC-3A and DC-3B, exhausting to common stack No. 3;

Note: The maximum throughput of metal for the Melting system is limited to 20 tons per hour by the maximum throughput from the Indoor Charge Handling system of 20 tons of metal per hour.

- (C) One (1) Holding system consisting of the following equipment:
 - (1) Two (2) Electric Holding Furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour;
 - (2) Two (2) natural gas-fired metal treatment Ladle Heaters each with a rated capacity of 1.0 MMBtu/hr, constructed in 2004; and
 - (3) Two (2) natural gas-fired pouring Ladle Heaters, identified as P10, each with a rated capacity of 0.4 MMBtu/hr, constructed in 2004.
- (D) One (1) Inoculation system consisting of two (2) metal treatment Ladles replaced in 2004, identified as P11, each with a maximum throughput capacity of 10 tons of metal per hour, controlled by baghouses DC-3A and DC-3B for particulate control, and exhausting to a common stack No. 3; and
- (E) One (1) Grinding process, identified as Grinders 3 and 4 constructed in 1988, and Grinders 5 through 9 constructed in 2009, with a total capacity of 12 tons of metal per hour, controlled by dust collectors exhausting inside the building.
- (2) Casting Line 2, with a maximum capacity of 15 tons of metal per hour and 70 tons of sand per hour, constructed in 2004, consisting of the following equipment:
 - (A) One (1) Sand System consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, with a total maximum capacity of 70 tons of sand per hour, controlled by baghouse BH6400, and exhausting to stack No. 6400;
 - (B) One (1) Pouring station, identified as P13B, with a maximum capacity of 15 tons of metal poured per hour, controlled by baghouse DC-3B, and exhausting to stack No. 3;
 - (C) One (1) Cooling line, identified as P14B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (D) One (1) Shakeout unit, identified as P16B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (E) One (1) Bad Heat Shakeout unit controlled by baghouse DC-5, and exhausting to stack No. 5;
 - (F) Casting Conveyors and Desprue operations, identified as P17B, P18B, P19B, P20B, P21B and P22B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouses DC-7 and DC-8B exhausting inside the building, and baghouse BH6200 exhausting to stack No. 6200; and

- (G) One (1) Plant 1, Line 2 Shotblast process, consisting of three shot blast units, identified as P40, P41 and P42, each with a maximum capacity of 5.3 tons of metal per hour and a total maximum capacity of 9.0 tons of metal per hour, controlled by baghouse DC-8B, and exhausting inside the building.
- (3) One (1) Shotblast unit, identified as Wheelabrator MeshBelt Blast, with a maximum capacity of 11.0 tons of metal per hour, controlled by baghouse DC-13, and exhausting internally.
- (c) One (1) Ductile Iron Foundry Line, constructed in 1997, identified as Plant 2, consisting of the following:
 - (1) One (1) Indoor Charge Handling System, identified as 1000A, with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) Melting, Inoculation and Pouring System, identified as 1110, 1150 and 2000, respectively, with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010, consisting of the following equipment:
 - (A) Two (2) Electric Induction Furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (B) One (1) Electric Holding Furnace, uncontrolled; and
 - (C) Two (2) natural gas-fired Ladle Heaters, identified as 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;
 - Note: The maximum throughput of metal for the Melting, Inoculation and Pouring System is limited to 10 tons of metal per hour by the maximum throughput from the Indoor Charge Handling System of 10 tons of metal per hour and the Power Control Systems at the plant.
 - (3) One (1) Mold Machine, identified as 2010, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010;
 - (4) One (1) Casting Conveyor System and one (1) Cooling Conveyor System, identified as 2015 and 2020, respectively, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6020 and BH6030 for particulate control, and exhausting to stack No. 6020, 6030A and 6030B;
 - (5) One (1) Casting Shakeout System, identified as 3010, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (6) One (1) Casting Shakeout System, identified as 3010, permitted in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (7) One (1) Sand and Waste Sand Handling System, identified as 4000, 4140 and 5000, with a maximum capacity of 70 tons of sand per hour, utilizing baghouse BH6020 and

BH6040 for particulate control, and exhausting to stack No. 6020 and 6040;

- (8) Two (2) Shotblast units, identified as Pre-Blast 3055 and Final Blast 3090, each with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6030, and exhausting to stack No. 6030A and 6030B; and
- (9) One (1) Finishing operation consisting of trim presses, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, uncontrolled.

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 million (10,000,000) British thermal units per hour:
 - (1) Two (2) natural gas-fired boilers, identified as P40 and P41, with a maximum heat capacity of 0.9 and 1.2 million Btu per hour, respectively; and
 - (2) One (1) natural gas-fired heater to dry scrap metal in Plant 1, rated at 1.0 MMBtu per hour.
- (b) Combustion source flame safety purging on startup;
- (c) Vessels storing the following: lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (d) Refractory storage not requiring air pollution control equipment;
- (e) Application of oils, greases, lubricants, and nonvolatile materials as temporary protective coatings.
- (f) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6: maintenance parts cleaner using mineral spirits solvent that is 100% recycled, with a maximum throughput of 120 gallons per 12 months; [326 IAC 8-3-2]
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access;
- (i) 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 three one-hundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4000) actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations, including the following specifically regulated grinders:
 - (1) Six (6) Bench Grinders, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, controlled by fabric filters FFA, FFB, FFC, FFD and FFE; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by

one (1) fabric filter, all exhausting inside the building. [326 IAC 6-3-2]

- (j) Filter or coalescer media changeout;
- (k) Other activities or categories not previously identified:
 - (1) Six (6) Scrap Bays, identified as P47 through P52, each with PM emissions of approximately 0.16 pound per hour; [326 IAC 6-3-2]
 - (2) Two (2) Sand Towers for the gray and ductile iron foundry line, identified as P55 and P56, constructed in 1988 (emissions are included in sand handling calculations);
 - (3) Maintenance shop operations, identified as P58 and P59, each with PM emissions of approximately 0.1 pounds per hour; [326 IAC 6-3-2]
 - (4) Two (2) Collector Penthouses, identified as P53 and P54, each with PM emissions of approximately 0.16 pounds per hour; [326 IAC 6-3-2]
 - (5) One (1) Material Separator (baghouse fallout collection), with PM emissions approximately 0.6 pounds per hour; [326 IAC 6-3-2]
 - (6) One (1) Paint Booth, identified as CO5, used for machine part maintenance coating operations, with a maximum throughput rate of 120 metal units per hour, utilizing dry filters for particulate control, exhausting inside the building or through stack No. SCO5; [326 IAC 6-3-2]
 - (7) One (1) scrap yard; and
 - (8) Two (2) fixed roof resin storage tanks, each with a maximum storage capacity of 2,000 gallons..
- (l) One (1) Sand Tower for the Ductile Iron Foundry Line, constructed in 1997, which houses the sand silos, bond silos, sand mullers, and sand conveyors used with the sand handling operations; and
- (m) Unvented trim press operations for pinching or cleaving protruding metal from castings with no emissions.

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, T139-25610-00011, 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] [IC 13-17-12]

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 or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

- (a) 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. All 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) by job title responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or

Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by the "responsible official" need only referenced by the date of the original 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 to T139-25610-00011 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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]

(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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 modification, construction, or reconstruction is governed by the requirements of 326 IAC 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 emission limitation, standard or rule 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)(D) and (E), 4-1-3(b)(2)(A)&(B), 4-1-3(b)(3)(D), 4-1-3(b)(4) & (5), 4-1-3(c)(1)(B)-(F), 4-1-3(C)(2)(B), 4-1-3(c)(6), 4-1-3(c)(8), and 4-1-6 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 Stack Height [326 IAC 1-7]

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

C.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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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.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 or ninety (90) days of initial start-up, whichever is later. 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

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

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

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 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
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

**C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
[326 IAC 2-2][326 IAC 2-3]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) 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
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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) 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 (d) 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 (d)(1) and (2) 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Core production facilities consisting of:

Three (3) Core Sand Bins and four (4) Isocure Cold Box Core Machines, identified as P4, P5, P6 and P7, each with a maximum capacity of processing 0.5 ton of core sand per hour, 8.0 pounds of resin per ton of core sand per hour, and 1.12 pounds of DMIPA catalyst per ton of core sand, utilizing a dust collector for particulate control, with P4, P5 and P6 constructed in 1988 and P7 constructed in 1994, and exhausting to stack No. 9.

(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 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 Core Sand Bins and Isocure Cold Box Core Machines shall not exceed 2.58 pounds per hour when operating at a process weight rate of 1,000 pounds of sand per hour.

The pound 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:

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

D.1.2 PSD Minor Limit [326 IAC 2-2]

Total PM and PM₁₀ emissions from the Core Sand Bins and Isocure Cold Box Core Machines shall each not exceed 0.82 pound per hour.

Compliance with this emission limit, in addition to the emission limits listed in condition D.2.2, limits PM and PM₁₀ emissions from the Plant 1 Melting Operations and the Isocure Cold Box Core Machines, constructed in 1988, each to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for these facilities and the baghouse for particulate control.

Compliance Determination Requirements

D.1.4 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with conditions D.1.1 and D.1.2, the baghouse for particulate control shall be in operation and control emissions from the Core Sand Bins and Isocure Cold Box Core Machines at all times that the Core Sand Bins and Isocure Cold Box Core Machines are in operation.

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.5 Visible Emissions Notations

- (a) Visible emission notations of the stack exhaust for the dust collector controlling the Core Sand Bins and Isocure Cold Box Core Machines shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable 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.1.6 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collector used in conjunction with the Core Sand Bins and Isocure Cold Box Core Machines, at least once per day when the Core Sand Bins and Isocure Cold Box Core Machines is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 0.5 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.1.7 Broken or Failed Baghouse Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed units and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).

- (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 line. 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).

Baghouse 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.1.8 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain daily records of visible emission notations of the Core Sand Bins and Isocure Cold Box Core Machines dust collector stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain once per day records of the pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) Gray and Ductile Iron Foundry Line, constructed in 1988, identified as Plant 1, consisting of the following:
 - (1) Melting and Finishing operations originally constructed in 1988 and modified in 2004, consisting of:
 - (A) One (1) Indoor Charge Handling System with a maximum capacity of 20 tons of metal per hour;

Note: The Power Control System at the plant limits the total maximum throughput of the Charge Handling system to 20 tons of metal per hour.
 - (B) One (1) Melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) Electric Induction Furnaces, identified as P1, P2 and P3, each with a maximum throughput capacity of 10 tons of metal per hour, utilizing two (2) baghouses for particulate control, identified as DC-3A and DC-3B, exhausting to common stack No. 3;

Note: The maximum throughput of metal for the Melting system is limited to 20 tons per hour by the maximum throughput from the Indoor Charge Handling system of 20 tons of metal per hour.
 - (C) One (1) Holding system consisting of the following equipment:
 - (1) Two (2) Electric Holding Furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour;
 - (2) Two (2) natural gas-fired Metal Treatment Ladle Heaters each with a rated capacity of 1.0 MMBtu/hr, constructed in 2004; and
 - (3) Two (2) natural gas-fired Pouring Ladle Heaters, identified as P10, each with a rated capacity of 0.4 MMBtu/hr, constructed in 2004.
 - (D) One (1) Inoculation system consisting of two (2) metal treatment ladles replaced in 2004, identified as P11, each with a maximum throughput capacity of 10 tons of metal per hour, controlled by baghouses DC-3A and DC-3B for particulate control, and exhausting to a common stack No. 3; and
 - (E) One (1) Grinding process, identified as Grinders 3 and 4 constructed in 1988, and Grinders 5 through 9 constructed in 2009, with a total capacity of 12 tons of metal per hour, controlled by dust collectors exhausting inside the building.

- (2) Casting Line 2, with a maximum capacity of 15 tons of metal per hour and 70 tons of sand per hour, constructed in 2004, consisting of the following equipment:
- (A) One (1) Sand System consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, with a total maximum capacity of 70 tons of sand per hour, controlled by baghouse BH6400, and exhausting to stack No. 6400;
 - (B) One (1) Pouring station, identified as P13B, with a maximum capacity of 15 tons of metal poured per hour, controlled by baghouse DC-3B, and exhausting to stack No. 3;
 - (C) One (1) Cooling line, identified as P14B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (D) One (1) Shakeout unit, identified as P16B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (E) One (1) Bad Heat Shakeout unit controlled by baghouse DC-5, and exhausting to stack No. 5;
 - (F) Casting Conveyors and Desprue operations, identified as P17B, P18B, P19B, P20B, P21B and P22B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouses DC-7 and DC-8B exhausting inside the building, and baghouse BH6200 exhausting to stack No. 6200; and
 - (G) One (1) Plant 1, Line 2 Shotblast process, consisting of three shot blast units, identified as P40, P41 and P42, each with a maximum capacity of 5.3 tons of metal per hour and a total maximum capacity of 9.0 tons of metal per hour, controlled by baghouse DC-8B, and exhausting inside the building.
- (3) One (1) Shotblast unit, identified as Wheelabrator MeshBelt Blast, with a maximum capacity of 11.0 tons of metal per hour, controlled by baghouse DC-13, and exhausting internally.

(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 BACT Limit for PM₁₀ [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3:

- (a) Opacity for stack No. DC-3A, DC-3B, BH6200, BH6400, and DC-5 shall not exceed ten percent (10%) for more than three (3) consecutive six (6) minute averaging periods.
- (b) The Ladle Heaters are exclusively natural gas fired and are therefore considered to meet the requirements for BACT.

- (c) The Permittee shall comply with the following BACT required emission limits for PM₁₀ from the Plant 1, Casting Line 2 processes (PM₁₀ limits include both filterable and condensable).

| Stack No. | Process | Filterable PM ₁₀ Emission Limitation | | Total PM ₁₀ Emission Limitation (lb/ton) (Filterable & Condensable) |
|-------------------------|---|---|---------|--|
| | | (gr/dscf) | (lb/hr) | |
| DC-3A | Melting (P8) & Inoculation (P11) | 0.003 | 1.7 | 0.633 lb/ton metal |
| DC-3B | Melting (P8), Inoculation (P11) & Pouring (P13B), | 0.003 | 1.7 | |
| BH6400 | Sand Handling (P32B-P37B, P39B) | 0.003 | 1.13 | 0.02 lb/ton sand |
| BH6200 | Cooling (P14B), Shakeout (P16B), & Casting Conveyors & Desprue operations (P17B-P22B) | 0.003 | 2.85 | 1.045 lb/ton metal |
| DC-8B (exhausts inside) | Shotblast (P40-P42) & Casting Conveyors & Desprue operations (P17B-P22B) | 0.003 | 1.03 | 0.085 lb/ton metal |
| DC-7 (exhausts inside) | Casting Conveyors & Desprue operations (P17B-P22B) | 0.003 | 0.55 | 0.085 lb/ton metal |
| DC-5 | Bad Heat Shakeout | 0.003 | 0.45 | 0.03 lb/ton metal |

D.2.2 PSD Minor Limit [326 IAC 2-2]

- (a) The throughput of metal charged and melted by P8 and P9 shall be less than 79,000 tons per year with compliance determined at the end of each month.
- (b) Emissions of PM and PM₁₀ shall be limited as follows:

| Process | PM/ PM ₁₀ Emission Limitation (lb/ton material) |
|--|--|
| Charge Handling Operations (P1,P2, and P3) | 0.24 |
| Melting (P8) | 0.20 |
| Holding Furnace (P9) | 0.10 |

- (c) Emissions of PM and PM₁₀ from the grinding process shall not exceed the following:

| Process | PM/ PM ₁₀ Emission Limitation (lb/hour) |
|--------------|--|
| Grinders 3-5 | 0.53 |
| Grinder 6 | 0.28 |
| Grinder 7 | 0.28 |
| Grinder 8 | 0.53 |
| Grinder 9 | 0.18 |

Compliance with the emission limits for the Grinders in conjunction with the emission limits and the throughput limits for the Melting (P8) and Holding Furnace (P9) and the PM and PM₁₀ limits listed in Condition D.1.2 limits PM and PM₁₀ emissions from the Plant 1 Operations and Isocure Cold Box Core Machines constructed in 1988 to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to the Charge Handling, Melting and Finishing operations.

D.2.3 PSD Minor Limits for PM and PM₁₀ [326 IAC 2-2]

PM and PM₁₀ emissions from the Wheelabrator MeshBelt Blast unit constructed in 2001 shall be limited as follows:

- (a) The PM emission rate shall not exceed 5.7 pounds per hour.
- (b) The PM₁₀ emission shall not exceed 3.4 pounds per hour.

Compliance with these emission limits will limit PM and PM₁₀ emissions from the Wheelabrator MeshBelt Blast to less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to the modification to construct this unit in 2001.

D.2.4 PSD Minor Limits [326 IAC 2-2]

(a) In order to render PSD not applicable for PM the following limits shall apply:

| Stack No. | Process | PM Emission Limitation (lb/ton material) | Throughput Limit per 12 consecutive month period) |
|------------------|---|---|--|
| DC-3A / DC-3B | Melting (P8), Inoculation (P11), & Pouring (P13B) | 0.17 lbs/ton metal poured | 79,000 tons metal poured |
| BH6400 | Sand Handling (P32B-P37B, P39B) | 0.016 lbs/ton sand | 368,667 tons sand processed |
| BH6200 | Cooling (P14B), Shakeout (P16B), & Casting Conveyors & Desprue operations (P17B-P22B) | 0.19 lbs/ton metal poured | 79,000 tons metal poured |
| DC-8B | Shot Blast Units (P40-P42), Casting Conveyors & Desprue Operations (P17B-P22B) | 0.11 lbs/ton metal poured | 79,000 tons metal poured |
| DC-7 | Casting Conveyors & Desprue Operations (P17B-P22B) | 0.037 lbs/ton metal poured | 79,000 tons metal poured |

- (b) CO emissions from the Pouring station (P13B), Cooling line (P14B), Shakeout (P16B) and Bad Heat Shakeout operations combined shall not exceed 2.5 pounds of CO per ton of metal throughput.
- (c) The throughput of metal to each of the Pouring station (P13B), Cooling line (P14B), Shakeout (P16B) and Bad Heat Shakeout operations shall not exceed 79,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the CO emission limit and the metal throughput limit will limit CO emissions from the units installed in 2004, including the Ladle Heaters, to less than 100 tons per year.

Therefore the requirements of 326 IAC 2-2 (PSD) do not apply to the modification in 2004.

D.2.5 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the Plant 1, Line 2 Gray and Ductile Iron Foundry line shall be limited as follows:

| Unit | Stack ID | Process Weight Rate (ton per hour) | Allowable Emissions (pounds per hour) |
|--|-----------------------|---|--|
| Charge Handling (P1, P2, P3) | N/A | 20.0 | 30.51 |
| Melting (P8), Holding Furnaces (P9), and Inoculation (P11) | DC-3A, DC-3B | 20.0 | 30.51 |
| Sand Handling (P32B - P37B & P39B) | BH6400 | 70.0 | 47.76 |
| Pouring (P13B)* | DC-3B | 85.0 | 49.67 |
| Cooling (P14B)* | BH6200 | 85.0 | 49.67 |
| Shakeout (P16B)* | BH6200 | 85.0 | 49.67 |
| Bad Heat Shakeout* | DC-5 | 85.0 | 49.67 |
| Casting Conveyors & Desprue (P17B – P22B) | BH6200 DC-8B, DC-7 | 15.0 | 25.16 |
| Shot Blast units (P40, P41 & P42) | DC-8B | 9.0 | 17.87 |
| Grinder 3 | -- | 1.25 | 4.76 |
| Grinder 4 | -- | 1.25 | 4.76 |
| Grinder 5 | -- | 1.25 | 4.76 |
| Grinder 6 | -- | 1.25 | 4.76 |
| Grinder 7 | -- | 1.25 | 4.76 |
| Grinder 8 | -- | 3.75 | 9.96 |
| Grinder 9 | -- | 1.25 | 4.76 |
| Wheelabrator MeshBelt Blast | DC-13 | 11.0 | 20.44 |

* Includes metal and sand throughput.

The pounds per hour limitations were calculated with the following equations:

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

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

or

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

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

D.2.6 PSD BACT for Volatile Organic Compounds (VOC) [326 IAC 2-2-3][326 IAC 8-1-6]

Pursuant to 326 IAC 2-2-3 (PSD) and 326 IAC 8-1-6 (BACT), the following conditions shall apply to the Pouring station (P13B), Cooling line (P14B), Shakeout (P16B) and Bad Heat Shakeout processes of Plant 1, Casting Line 2:

- (a) Material Substitution and Lower-Emitting Processes/Practices shall be used to limit VOC emissions.
- (b) VOC emissions shall not exceed 1.2 pounds per ton of metal throughput to the Pouring station (P13B), Cooling line (P14B), and Shakeout operations (P16B) and Bad Heat Shakeout operations combined.
- (c) The throughput of metal to the Pouring, Cooling and Shakeout operations (P13B, P14B, and P16B) and Bad Heat Shakeout operations shall not exceed 79,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (d) The installed Advanced Oxidation (AO) system shall be used with a minimum VOC reduction efficiency of 20%.

D.2.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for the facilities' control devices, including capture systems.

Compliance Determination Requirements

D.2.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.2.1(c), D.2.2(c), D.2.3, D.2.4 and D.2.5 the Permittee shall perform PM and PM₁₀ testing for the following facilities utilizing methods as approved by the Commissioner.
 - (1) Baghouses DC-3A & DC-3B controlling the Melting (P8), Inoculation (P11), & Pouring (P13B) operations.
 - (2) Baghouse BH6400 controlling the Sand Handling (P32B-P37B, P39B) system.
 - (3) Baghouse BH6200 controlling the Cooling (P14B), Shakeout (P16B), & Casting Conveyors & Desprue (P17B-P22B) operations.
 - (4) Baghouse DC-8B controlling the Shot Blast Units (P40-P42), Casting Conveyors & Desprue (P17B-P22B) operations.
 - (5) Baghouse DC-7 controlling the Casting Conveyors & Desprue operations.
- (b) On or before December 31, 2009, in order to demonstrate compliance with Conditions D.2.6(b) and D.2.7(a), the Permittee shall perform VOC and CO testing for the Pouring station (P13B), Cooling line (P14B), and Shakeout (P16B) operations utilizing methods as approved by the Commissioner.

- (c) The tests required in (a) and (b) above shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C – Performance Testing.

D.2.9 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with conditions D.2.1, D.2.2, D.2.3, D.2.4, and D.2.5 the baghouses for particulate control shall be in operation and control emissions from the Melting, Inoculation, Pouring, Cooling, Shakeout, Casting Conveyors & Desprue, Shotblasting, and Grinding processes at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.2.10 Visible Emissions Notations

- (a) Visible emission notations of the Charge Handling operation and the stack exhaust from stack No. 3, 6200, 6400, and 5 for the Melting, Inoculation, Pouring, Cooling, Shakeout, Casting Conveyors & Desprue, Shotblasting operations shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, “normal” means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable 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.2.11 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses BH6200, BH6400, DC-3A, DC-3B, DC-7, DC-8B, DC-5, and DC-13 used in conjunction with the Melting, Inoculation, Pouring, Cooling, Shakeout, Casting Conveyors & Desprue, Shotblasting, Bad Heat Shakeout, and Wheelabrator MeshBelt Blast processes, at least once per day when the Melting, Inoculation, Pouring, Cooling, Shakeout, Casting Conveyors & Desprue, Shotblasting, Bad Heat Shakeout, and Wheelabrator MeshBelt Blast processes are in operation. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 0.5 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.2.12 Broken or Failed Baghouse 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 line. 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).

Baghouse 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.2.13 Parametric Monitoring of Advanced Oxidation (AO) System

- (a) The Permittee shall monitor and record the ultra-sonic power of the AO system or equivalent system used in conjunction with the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes, at least once per day when the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes are in operation. When for any one reading, the ultra-sonic power is less than 1100 W or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. An ultra-sonic power reading that is below the above mentioned minimum 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.
- (b) The Permittee shall monitor and record the ozone generator plasma voltage of the AO system or equivalent system used in conjunction with the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes, at least once per day when the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes are in operation. When for any one reading, the ozone generator plasma voltage is less than 2400 V or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. An ozone generator plasma voltage reading that is below the above mentioned minimum 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.
- (c) The Permittee shall monitor and record the hydrogen peroxide usage of the AO system or equivalent system used in conjunction with the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes, at least once per day when the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes

are in operation. When for any one reading, the hydrogen peroxide is less than 1 gallon per hour of muller operation, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A peroxide usage reading that is below the above mentioned minimum 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 instruments used for determining the ultra-sonic power, the ozone generator plasma voltage and the hydrogen peroxide usage shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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

D.2.14 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.2(c) and D.2.4, and D.2.6(c), the Permittee shall maintain records of the tons of metal poured on Casting Line 2 operations per month.
- (b) To document compliance with Condition D.2.4, the Permittee shall maintain records of the tons of mold sand processed on Casting Line 2 operations per month.
- (c) To document compliance with Condition D.2.2(c), the Permittee shall maintain records of the tons of metal throughput to the Grinders 3-9 per month.
- (d) To document compliance with Condition D.2.10, the Permittee shall maintain records of visible emission notations of the stack exhausts from stack No. 3, 6200, 6400, 5 and 8A once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (e) To document compliance with Condition D.2.11, the Permittee shall maintain once per day records of the pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (f) To document compliance with Condition D.2.13, the Permittee shall maintain records of the ultra-sonic power, the ozone generator plasma voltage, and the hydrogen peroxide usage of the AO system.
- (g) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

D.2.15 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.2(c), D.2.4(a) and (c), and D.2.6(c) 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:

- (c) One (1) Ductile Iron Foundry Line, constructed in 1997, identified as Plant 2, consisting of the following:
- (1) One (1) Indoor Charge Handling system, identified as 1000A, with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) Melting, Inoculation and Pouring system, identified as 1110, 1150 and 2000, respectively, with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010, consisting of the following equipment:
 - (A) Two (2) Electric Induction Furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (B) One (1) Electric Holding Furnace, uncontrolled; and
 - (C) Two (2) natural gas-fired Ladle Heaters, identified as 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;
- Note: The maximum throughput of metal for the Melting and Pouring system is limited to 10 tons of metal per hour by the maximum throughput from the Charge Handling system of 10 tons of metal per hour and the Power Control systems at the plant.
- (3) One (1) Mold machine, identified as 2010, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010;
 - (4) One (1) Casting Conveyor system and one (1) Cooling Conveyor system, identified as 2015 and 2020, respectively, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6020 and BH6030 for particulate control, and exhausting to stack No. 6020, 6030A and 6030B;
 - (5) One (1) Casting Shakeout system, identified as 3010, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (6) One (1) Casting Shakeout system, identified as 3010, permitted in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (7) One (1) Sand and Waste Sand Handling system, identified as 4000, 4140 and 5000, with a maximum capacity of 70 tons of sand per hour, utilizing baghouse BH6020 and BH6040 for particulate control, and exhausting to stack No. 6020 and 6040;
 - (8) Two (2) Shot Blast units, identified as Pre-Blast 3055 and Final Blast 3090, each with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6030,

and exhausting to stack No. 6030A and 6030B; and

(9) One (1) Finishing operation consisting of trim presses, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, uncontrolled.

Insignificant Activities:

(i)(1) Six (6) Bench Grinders, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, controlled by fabric filters FFA, FFB, FFC, FFD and FFE; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter, all exhausting inside the building. [326 IAC 6-3-2]

(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 Charge Handling operation (1000A) shall comply with the following limits:

Emissions of PM and PM₁₀ shall each not exceed 0.12 pound per hour.

(b) Emissions of PM and PM₁₀ and the throughput of metal and sand for the Plant 2 Ductile Iron Foundry Line, constructed in 1997, shall be limited as follows:

| Process | Control Device ID | PM/ PM ₁₀ Emission Limitation (lb/ton material) | Throughput Limit of Material (tons per 12 consecutive month period) |
|---|----------------------------------|--|---|
| Melting, Inoculation and Pouring System (1110, 1150 & 2000) | baghouse BH6010 | 0.50 | 61,500 (metal) |
| Holding Furnace | NA | 0.10 | 61,500 (metal) |
| Casting Conveyor and Cooling Conveyor Systems (2015 and 2020) | baghouse BH6020, baghouse BH6030 | 1.45 (for control device BH6030) | 61,500 (metal) |
| Casting Shakeout System (3010) | baghouse BH6030 | | |
| Pre-Blast (3055) and Final Blast (3090) Shotblast units | baghouse BH6030 | | |
| Sand and Waste Sand Handling System (4000, 4140, and 5000) | baghouse BH6020, | 0.11 (for control device BH6020) | 430,500 (mold sand) |
| | baghouse BH6040 | 0.05 (for control device BH6040) | |
| Grinding (8000) | fabric filters FFA - FFE | 0.06 | 48,180 (metal) |

The PM and PM₁₀ emissions from the Plant 2 Ductile Iron Foundry Line constructed in 1997 are each less than 100 tons per year. Any emissions from the Electric Holding Furnace are accounted for in the emissions from melting in the Electric Induction Furnaces.

- (c) Emissions of VOC and the throughput of metal for the Plant 2 Ductile Iron Foundry Line, constructed in 1997, shall be limited as follows:
- (1) VOC emissions from the Melting (1110), Inoculation (1150), Pouring (2000), the Casting conveyor & Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) combined shall not exceed 0.8 pound of VOC per ton of metal throughput.
 - (2) The throughput of metal to each of the Melting (1110), Inoculation (1150), Pouring (2000), the Casting conveyor & Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) shall not exceed 61,500 tons per twelve (12) consecutive month period.

The metal throughput limit and the VOC emission limits yield VOC emissions from the Plant 2 Ductile Iron Foundry Line constructed in 1997 less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

- (d) Emissions of CO and the throughput of metal for the Plant 2 Ductile Iron Foundry Line, constructed in 1997, shall be limited as follows:
- (1) CO emissions from the Pouring (2000), the Casting conveyor & Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) combined shall not exceed 3.2 pounds of CO per ton of metal throughput;
 - (2) The throughput of metal to each of the Pouring (2000), the Casting conveyor & Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) shall not exceed 61,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the CO emission limit and the metal throughput limit will limit CO emissions from the Plant 2 Ductile Iron Foundry Line, constructed in 1997, including the Ladle Heaters, to less than 100 tons per year.

Therefore the requirements of 326 IAC 2-2 (PSD) do not apply to the modification in 1997.

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the Plant 2, Ductile Iron Foundry Line shall be limited as follows:

| Unit | Control Device ID | Process Weight Rate (ton per hour) | Allowable Emissions (pounds per hour) |
|--|----------------------------------|---|--|
| Charge Handling (1000A) | NA | 10.0 | 19.18 |
| Melting, Inoculation and Pouring (1110, 1150, 2000) | baghouse BH6010 | 10.0 | 19.18 |
| Holding Furnace | Uncontrolled | 10.0 | 19.18 |
| Casting Conveyor and Cooling Conveyor (2015 and 2020)* | baghouse BH6020, baghouse BH6030 | 80.0 | 49.06 |
| Casting Shakeout (3010)* | baghouse BH6030 | 80.0 | 49.06 |

| | | | |
|--|---|------|-------|
| Pre-Blast (3055) | baghouse BH6030 | 10.0 | 19.18 |
| Final Blast (3090) | baghouse BH6030 | 10.0 | 19.18 |
| Sand & Waste Sand Handling (4000, 4140, and 5000) | baghouse BH6020, baghouse BH6040 | 70.0 | 47.77 |
| Grinding (8000) | fabric filters FFA - FFE | 5.50 | 12.85 |

* Includes metal and sand throughput.

The pounds per hour limitations were calculated with the following equations:

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

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

or

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

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

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.3.1(b), and D.3.2, the Permittee shall perform PM, and PM₁₀ for the following facilities utilizing methods as approved by the Commissioner:
- (1) the baghouse controlling the Melting, Inoculation and Pouring operations (1110, 1150, and 2000) exhausting to stack No. 6010;
 - (2) the baghouses controlling the Casting Conveyor and Cooling Conveyor system (2015 and 2020) exhausting to stack No. 6020, 6030A and 6030B;
 - (3) the baghouse controlling the Shakeout operation (3010) exhausting to stack No. 6030A and 6030B;
 - (4) the baghouses controlling the Sand and Waste Sand Handling system (4000, 4140, and 5000) exhausting to stack No. 6020 and 6040 (PM and PM₁₀ testing only); and
 - (5) one (1) fabric filter controlling two (2) bench grinders, exhausting to the room.

These tests shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

- (b) In order to demonstrate compliance with Condition D.3.1(c), the Permittee shall perform VOC testing for the Melting (1110), Inoculation (1150), Pouring (2000), the Casting Conveyor and Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) utilizing methods as approved by the Commissioner. These tests 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.
- (c) In order to demonstrate compliance with Condition D.3.1(d), the Permittee shall perform CO testing for the Pouring (2000), the Casting Conveyor and Cooling Conveyor system (2015 and 2020), and the Casting Shakeout system (3010) utilizing methods as approved by the Commissioner. These tests 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.3.5 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.1(b) and D.3.2, the baghouses and fabric filters for particulate and metallic HAP control shall be in operation and control emissions from the Melting, Inoculation, Pouring, Cooling, Shakeout, Sand Handling, Waste Sand Handling, and Grinding processes and the Pre-Blast and Final Blast Shot Blast machines at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.3.6 Visible Emissions Notations

- (a) Visible emission notations of the Charge Handling operation and the stack exhausts for the Melting, Inoculation, Pouring, Cooling, Shakeout, Sand Handling, Waste Sand Handling, and Grinding processes and the Pre-Blast and Final Blast Shot Blast machines shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable 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.3.7 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses used in conjunction with the Melting, Inoculation, Pouring, Cooling, Shakeout, Sand Handling, Waste Sand Handling, and Grinding processes and the Pre-Blast and Final Blast Shot Blast machines, at least once per day when the Melting, Inoculation, Pouring, Cooling, Shakeout, Sand Handling, Waste Sand Handling, and Grinding processes and the Pre-Blast and Final Blast Shot Blast machines are in operation. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 0.5 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.3.8 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed units and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (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 line. 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).

Baghouse 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.3.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.3.1(b), D.3.1(c), and D.3.1(d), the Permittee shall maintain records of the monthly metal throughput to the Melting, Inoculation and Pouring operations (1110, 1150, and 2000), the Holding Furnace, Casting Conveyor and Cooling Conveyor system (2015 and 2020), the Casting Shakeout system (3010), the Pre-Blast (3055) and Final Blast (3090), and the Grinding (8000) units.
- (b) To document compliance with Condition D.3.1(b), the Permittee shall maintain records of the monthly sand throughput to the Sand & Waste Sand Handling System (4000, 4140, and 5000).
- (c) To document compliance with Condition D.3.6, the Permittee shall maintain records of visible emission notations of the Charge Handling operation and the stack exhausts for the Melting, Inoculation, Pouring, Cooling, Shakeout, Sand Handling, Waste Sand

Handling, and Grinding processes and the Pre-Blast and Final Blast Shot Blast machines taken once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

- (d) To document compliance with Condition D.3.7, the Permittee shall maintain once per day records of the pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.3.1(b), D.3.1(c), and D.3.1(d) 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:

Insignificant Activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour;
 - Two (2) boilers, identified as P40 and P41, with a maximum heat capacity of 0.9 and 1.2 million British units per hour, respectively, each combusting natural gas; [326 IAC 6-2-4]
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (Maintenance parts cleaner using mineral spirits solvent that is 100% recycled, with a maximum throughput of 120 gallons per 12 months); [326 IAC 8-3-2]

(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 Particulate Matter (PM) [326 IAC 6-2]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), for Q less than 10 MMBtu per hour, the pounds of PM emitted per million Btu heat input shall not exceed 0.6 pound per MMBtu. Therefore, PM emissions from each of the boilers, identified as P40 and P41, shall not exceed 0.6 pound per MMBtu heat input.

D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) Gray and Ductile Iron Foundry Line, constructed in 1988, identified as Plant 1, consisting of the following:
- (1) Melting operations originally constructed in 1988 and modified in 2004, consisting of:
- (A) One (1) Melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) Electric Induction Furnaces, identified as P1, P2 and P3, each with a maximum throughput capacity of 10 tons of metal per hour, utilizing two (2) baghouses for particulate control, identified as DC-3A and DC-3B, exhausting to common stack No. 3;
- Note: The maximum throughput of metal for the Melting system is limited to 20 tons per hour by the maximum throughput from the Indoor Charge Handling system of 20 tons of metal per hour.
- (C) One (1) Holding system consisting of the following equipment:
- (1) Two (2) Electric Holding Furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour;
- (2) Two (2) natural gas-fired Metal Treatment Ladle Heaters each with a rated capacity of 1.0 MMBtu/hr, constructed in 2004; and
- (3) Two (2) natural gas-fired Pouring Ladle Heaters, identified as P10, each with a rated capacity of 0.4 MMBtu/hr, constructed in 2004.
- (c) Plant 1, Casting Line 2, with a maximum capacity of 15 tons of metal per hour and 70 tons of sand per hour, constructed in 2004, consisting of the following equipment:
- (1) One (1) Pouring station, identified as P13B, with a maximum capacity of 15 tons of metal poured per hour, controlled by baghouse DC-3B, and exhausting to stack No. 3.
- (2) One (1) Cooling line, identified as P14B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200.
- (d) Plant 2, Ductile Iron Foundry Line, constructed in 1997, consisting of the following:
- (1) One (1) Melting and Pouring system, identified as 1110 and 2000, respectively, with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010, consisting of the following equipment:
- (A) Two (2) Electric Induction Furnaces, each with a maximum capacity of 10 tons of metal per hour;
- (B) One (1) Electric Holding Furnace, uncontrolled); and
- (C) Two (2) natural gas-fired Ladle Heaters, identified as 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;

Note: The maximum throughput of metal for the Melting and Pouring system is limited to 10 tons of metal per hour by the maximum throughput from the Charge Handling system of 10 tons of metal per hour and the Power Control systems at the plant.

- (2) One (1) Mold machine, identified as 2010, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010; and
- (3) One (1) Casting Conveyor system and one (1) Cooling Conveyor system, identified as 2015 and 2020, respectively, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6020 and BH6030 for particulate control, and exhausting to stack No. 6020, 6030A and 6030B.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements: Iron and Steel Foundries [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.7760, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the above listed facilities and the fugitive emissions from the foundry operations, as specified in Table 1 of 40 CFR 63, Subpart EEEEE in accordance with schedule in 40 CFR 63 Subpart EEEEE.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 1003
Indianapolis, Indiana 46204

E.1.2 National Emissions Standards for Hazardous Air Pollutants for Iron and Steel Foundries: Requirements [40 CFR Part 63, Subpart EEEEE] [326 IAC 20-92]

Pursuant to CFR Part 63, Subpart EEEEE, the Permittee shall comply with the applicable provisions of 40 CFR Part 63, Subpart EEEEE (included as Attachment B), which are incorporated by reference as 326 IAC 20-92, for the above listed facilities and the fugitive emissions from the foundry operations, as specified as follows:

- (1) 40 CFR 63.7680
- (2) 40 CFR 63.7681
- (3) 40 CFR 63.7682
- (4) 40 CFR 63.7683(a)
- (5) 40 CFR 63.7683(b)
- (6) 40 CFR 63.7683(f)
- (7) 40 CFR 63.7690(a)(1)(i)
- (8) 40 CFR 63.7690(a)(5)(i)
- (9) 40 CFR 63.7690(a)(7)
- (10) 40 CFR 63.7700(a)
- (11) 40 CFR 63.7700(b)

- (12) 40 CFR 63.7710(a)
- (13) 40 CFR 63.7710(b)(1)
- (14) 40 CFR 63.7710(b)(3)
- (15) 40 CFR 63.7710(b)(4)
- (16) 40 CFR 63.7710(b)(5)
- (17) 40 CFR 63.7710(b)(6)
- (18) 40 CFR 63.7720
- (19) 40 CFR 63.7730(a)
- (20) 40 CFR 63.7730(b)
- (21) 40 CFR 63.7731
- (22) 40 CFR 63.7732(a)
- (23) 40 CFR 63.7732(b)(1)
- (24) 40 CFR 63.7732(b)(2)
- (25) 40 CFR 63.7732(b)(4)
- (26) 40 CFR 63.7732(c)(1)
- (27) 40 CFR 63.7732(c)(2)
- (28) 40 CFR 63.7732(c)(4)
- (29) 40 CFR 63.7732(d)
- (30) 40 CFR 63.7732(h)
- (31) 40 CFR 63.7733(a)
- (32) 40 CFR 63.7733(e)
- (33) 40 CFR 63.7733(f)
- (34) 40 CFR 63.7734(a)(1)(i)
- (35) 40 CFR 63.7734(a)(5)(i)
- (36) 40 CFR 63.7734(a)(7)
- (37) 40 CFR 63.7734(b)(1)
- (38) 40 CFR 63.7735(a)
- (39) 40 CFR 63.7736(c)
- (40) 40 CFR 63.7736(d)
- (41) 40 CFR 63.7740(b)
- (42) 40 CFR 63.7741(b)
- (43) 40 CFR 63.7742
- (44) 40 CFR 63.7743(a)(1)(i)
- (45) 40 CFR 63.7743(a)(5)(i)
- (46) 40 CFR 63.7743(a)(7)
- (47) 40 CFR 63.7743(a)(12)
- (48) 40 CFR 63.7743(c)
- (49) 40 CFR 63.7744(a)
- (50) 40 CFR 63.7745
- (51) 40 CFR 63.7746
- (52) 40 CFR 63.7750(a)
- (53) 40 CFR 63.7750(b)
- (54) 40 CFR 63.7750(d)
- (55) 40 CFR 63.7750(e)
- (56) 40 CFR 63.7751
- (57) 40 CFR 63.7752(a)
- (58) 40 CFR 63.7752(c)
- (59) 40 CFR 63.7753
- (60) 40 CFR 63.7760
- (61) 40 CFR 63.7761
- (62) 40 CFR 63.7765
- (63) Table 1

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: INTAT Precision, Inc.
Source Address: 2148 State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-25610-00011

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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: INTAT Precision, Inc.
Source Address: 2148 State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-25610-00011

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

| |
|---|
| Facility/Equipment/Operation: |
| Control Equipment: |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency: |
| Describe the cause of the Emergency: |

If any of the following are not applicable, mark N/A

Page 2 of 2

| |
|---|
| Date/Time Emergency started: |
| Date/Time Emergency was corrected: |
| Was the facility being properly operated at the time of the emergency? Y N |
| Type of Pollutants Emitted: TSP, PM ₁₀ , SO ₂ , VOC, NO _x , CO, Pb, other: |
| Estimated amount of pollutant(s) emitted during emergency: |
| Describe the steps taken to mitigate the problem: |
| Describe the corrective actions/response steps taken: |
| Describe the measures taken to minimize emissions: |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: INTAT Precision, Inc.
 Source Address: 2148 State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-25610-00011
 Facility: Plant 1 Melting Operations constructed in 1988
 Parameter: PM and PM₁₀ emissions
 Limit: The throughput of metal to each of the Melting (P8) and Holding Furnace (P9) shall not exceed 79,000 tons per twelve (12) consecutive month period.

QUARTER:

YEAR:

| Month | Facility ID | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|-------------|------------------------------------|--|--|
| | | Metal Throughput This Month (tons) | Metal Throughput for Previous 11 Months (tons) | 12 Month Total Metal Throughput (tons) |
| Month 1 | P8 | | | |
| | P9 | | | |
| Month 2 | P8 | | | |
| | P9 | | | |
| Month 3 | P8 | | | |
| | P9 | | | |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-25610-00011
Facility: Casting Line 2 constructed in 2004
Parameter: PM and PM₁₀ emissions
Limit: The throughput of sand to the Sand Handling (P32B- P37B, P39B) shall not exceed 368,667 tons per twelve (12) consecutive month period.

QUARTER:

YEAR:

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|-----------------------------------|---|---------------------------------------|
| | Sand Throughput This Month (tons) | Sand Throughput for Previous 11 Months (tons) | 12 Month Total Sand Throughput (tons) |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-25610-00011
 Facility: Plant 2, ductile iron foundry line constructed in 1997
 Parameter: PM and PM₁₀ emissions and VOC and CO emissions
 Limit: The throughput of Metal melted shall not exceed 61,500 tons per twelve (12) consecutive month period.

QUARTER:

YEAR:

| Month | Facility ID | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|----------------|------------------------------------|--|--|
| | | Metal Throughput This Month (tons) | Metal Throughput for Previous 11 Months (tons) | 12 Month Total Metal Throughput (tons) |
| Month 1 | Melting (1110) | | | |
| Month 2 | Melting (1110) | | | |
| Month 3 | Melting (1110) | | | |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-25610-00011
Facility: Plant 2, ductile iron foundry line constructed in 1997
Parameter: PM and PM₁₀ emissions
Limit: The throughput of sand to the Sand & Waste Sand Handling operation (4000, 4140, and 5000) shall not exceed 430,500 tons per twelve (12) consecutive month period.

QUARTER:

YEAR:

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|--|--|--|
| | Sand & Waste Sand Throughput This Month (tons) | Sand & Waste Sand Throughput for Previous 11 Months (tons) | 12 Month Total Sand & Waste Sand Throughput (tons) |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: INTAT Precision, Inc.
Source Address: 2148 State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-25610-00011

Months: _____ to _____ Year: _____

| | |
|---|--------------------------------------|
| <p>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".</p> | |
| <p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p> | |
| <p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p> | |
| <p>Permit Requirement (specify permit condition #)</p> | |
| <p>Date of Deviation:</p> | <p>Duration of Deviation:</p> |
| <p>Number of Deviations:</p> | |
| <p>Probable Cause of Deviation:</p> | |
| <p>Response Steps Taken:</p> | |
| <p>Permit Requirement (specify permit condition #)</p> | |
| <p>Date of Deviation:</p> | <p>Duration of Deviation:</p> |
| <p>Number of Deviations:</p> | |
| <p>Probable Cause of Deviation:</p> | |
| <p>Response Steps Taken:</p> | |

| | |
|--|-------------------------------|
| 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.

DRAFT

**Appendix A
NESHAP 40 CFR Part 63, Subpart EEEEE**

**INTAT Precision, Inc.
2148 State Road 3 North
Rushville, Indiana 46173**

Part 70 Operating Permit Renewal No.: T139-25610-00011

What this Subpart Covers

§ 63.7680 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for iron and steel foundries. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart.

§ 63.7681 Am I subject to this subpart?

You are subject to this subpart if you own or operate an iron and steel foundry that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. Your iron and steel foundry is a major source of HAP for purposes of this subpart if it emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year or if it is located at a facility that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year as defined in §63.2.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7218, Feb. 7, 2008]

§ 63.7682 What parts of my foundry does this subpart cover?

- (a) The affected source is each new or existing iron and steel foundry.
- (b) This subpart 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 subpart also covers fugitive emissions from foundry operations.
- (c) An affected source is existing if you commenced construction or reconstruction of the affected source before December 23, 2002.
- (d) An affected source is new if you commenced construction or reconstruction of the affected source on or after December 23, 2002. An affected source is reconstructed if it meets the definition of "reconstruction" in §63.2.

§ 63.7683 When do I have to comply with this subpart?

- (a) Except as specified in paragraph (b) of this section, if you have an existing affected source, you must comply with each emissions limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you no later than April 23, 2007. Major source status for existing affected sources must be determined no later than April 23, 2007.
- (b) If you have an existing affected source, you must comply with the work practice standards in §63.7700(b) or (c), as applicable, no later than April 22, 2005.
- (c) If you have a new affected source for which the initial startup date is on or before April 22, 2004, you must comply with each emissions limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you by April 22, 2004.
- (d) If you have a new affected source for which the initial startup date is after April 22, 2004, you must comply with each emissions limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you upon initial startup.
- (e) If your iron and steel foundry is an area source that becomes a major source of HAP, you must meet the requirements of §63.6(c)(5).
- (f) You must meet the notification and schedule requirements in §63.7750. Note that several of these notifications must be submitted before the compliance date for your affected source.

Emissions Limitations

§ 63.7690 What emissions limitations must I meet?

(a) You must meet the emissions limits or standards in paragraphs (a)(1) through (11) of this section that apply to you. When alternative emissions limitations are provided for a given emissions source, you are not restricted in the selection of which applicable alternative emissions limitation is used to demonstrate compliance.

(1) For each electric arc metal melting furnace, electric induction metal melting furnace, or scrap preheater at an existing iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for particulate matter (PM) in paragraph (a)(1)(i) of this section or, alternatively the limit for total metal HAP in paragraph (a)(1)(ii) of this section:

(i) 0.005 grains of PM per dry standard cubic foot (gr/dscf), or

(ii) 0.0004 gr/dscf of total metal HAP.

(2) For each cupola metal melting furnace at an existing iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM in paragraph (a)(2)(i) or (ii) of this section or, alternatively the limit for total metal HAP in paragraph (a)(2)(iii) or (iv) of this section:

(i) 0.006 gr/dscf of PM; or

(ii) 0.10 pound of PM per ton (lb/ton) of metal charged, or

(iii) 0.0005 gr/dscf of total metal HAP; or

(iv) 0.008 pound of total metal HAP per ton (lb/ton) of metal charged.

(3) For each cupola metal melting furnace or electric arc metal melting furnace at a new iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM in paragraph (a)(3)(i) of this section or, alternatively the limit for total metal HAP in paragraph (a)(3)(ii) of this section:

(i) 0.002 gr/dscf of PM, or

(ii) 0.0002 gr/dscf of total metal HAP.

(4) For each electric induction metal melting furnace or scrap preheater at a new iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM in paragraph (a)(4)(i) of this section or, alternatively the limit for total metal HAP in paragraph (a)(4)(ii) of this section:

(i) 0.001 gr/dscf of PM, or

(ii) 0.00008 gr/dscf of total metal HAP.

(5) For each pouring station at an existing iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM in paragraph (a)(5)(i) of this section or, alternatively the limit for total metal HAP in paragraph (a)(5)(ii) of this section:

(i) 0.010 gr/dscf of PM, or

(ii) 0.0008 gr/dscf of total metal HAP.

(6) For each pouring area or pouring station at a new iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM in paragraph (a)(6)(i) of this section or, alternatively the limit for total metal HAP in paragraph (a)(6)(ii) of this section:

(i) 0.002 gr/dscf of PM, or

(ii) 0.0002 gr/dscf of total metal HAP.

(7) For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, you must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.

(8) For each cupola metal melting furnace at a new or existing iron and steel foundry, you must not discharge emissions of volatile organic hazardous air pollutants (VOHAP) through a conveyance to the atmosphere that exceed 20 parts per million by volume (ppmv) corrected to 10 percent oxygen.

(9) As an alternative to the work practice standard in §63.7700(e) for a scrap preheater at an existing iron and steel foundry or in §63.7700(f) for a scrap preheater at a new iron and steel foundry, you must not discharge emissions of VOHAP through a conveyance to the atmosphere that exceed 20 ppmv.

(10) For one or more automated conveyor and pallet cooling lines that use a sand mold system or automated shakeout lines that use a sand mold system at a new iron and steel foundry, you must not discharge emissions of VOHAP through a conveyance to the atmosphere that exceed a flow-weighted average of 20 ppmv.

(11) For each triethylamine (TEA) cold box mold or core making line at a new or existing iron and steel foundry, you must meet either the emissions limit in paragraph (a)(11)(i) of this section or, alternatively the emissions standard in paragraph (a)(11)(ii) of this section:

(i) You must not discharge emissions of TEA through a conveyance to the atmosphere that exceed 1 ppmv, as determined according to the performance test procedures in §63.7732(g); or

(ii) You must reduce emissions of TEA from each TEA cold box mold or core making line by at least 99 percent, as determined according to the performance test procedures in §63.7732(g).

(b) You must meet each operating limit in paragraphs (b)(1) through (5) of this section that applies to you.

(1) You must install, operate, and maintain a capture and collection system for all emissions sources subject to an emissions limit for VOHAP or TEA in paragraphs (a)(8) through (11) of this section.

(i) Each capture and collection system must meet accepted engineering standards, such as those published by the American Conference of Governmental Industrial Hygienists.

(ii) You must operate each capture system at or above the lowest value or settings established as operating limits in your operation and maintenance plan.

(2) You must operate each wet scrubber applied to emissions from a metal melting furnace, scrap preheater, pouring area, or pouring station subject to an emissions limit for PM or total metal HAP in paragraphs (a)(1) through (6) of this section such that the 3-hour average pressure drop and scrubber water flow rate does not fall below the minimum levels established during the initial or subsequent performance test.

(3) You must operate each combustion device applied to emissions from a cupola metal melting furnace subject to the emissions limit for VOHAP in paragraph (a)(8) of this section, such that the 15-minute average combustion zone temperature does not fall below 1,300 degrees Fahrenheit (°F). Periods when the cupola is off blast and for 15 minutes after going on blast from an off blast condition are not included in the 15-minute average.

(4) You must operate each combustion device applied to emissions from a scrap preheater subject to the emissions limit for VOHAP in paragraph (a)(9) of this section or from a TEA cold box mold or core making line subject to the emissions limit for TEA in paragraph (a)(11) of this section, such that the 3-hour average combustion zone temperature does not fall below the minimum level established during the initial or subsequent performance test.

(5) You must operate each wet acid scrubber applied to emissions from a TEA cold box mold or core making line subject to the emissions limit for TEA in paragraph (a)(11) of this section such that:

- (i) The 3-hour average scrubbing liquid flow rate does not fall below the minimum level established during the initial or subsequent performance test; and
- (ii) The 3-hour average pH of the scrubber blowdown, as measured by a continuous parameter monitoring system (CPMS), does not exceed 4.5 or the pH of the scrubber blowdown, as measured once every 8 hours during process operations, does not exceed 4.5.
- (c) If you use a control device other than a baghouse, wet scrubber, wet acid scrubber, or combustion device, you must prepare and submit a monitoring plan containing the information listed in paragraphs (c)(1) through (5) of this section. The monitoring plan is subject to approval by the Administrator.
 - (1) A description of the device;
 - (2) Test results collected in accordance with §63.7732 verifying the performance of the device for reducing emissions of PM, total metal HAP, VOHAP, or TEA to the levels required by this subpart;
 - (3) A copy of the operation and maintenance plan required by §63.7710(b);
 - (4) A list of appropriate operating parameters that will be monitored to maintain continuous compliance with the applicable emissions limitation(s); and
 - (5) Operating parameter limits based on monitoring data collected during the performance test.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7218, Feb. 7, 2008]

Work Practice Standards

§ 63.7700 What work practice standards must I meet?

- (a) For each segregated scrap storage area, bin or pile, you must either comply with the certification requirements in paragraph (b) of this section, or prepare and implement a plan for the selection and inspection of scrap according to the requirements in paragraph (c) of this section. You may have certain scrap subject to paragraph (b) of this section and other scrap subject to paragraph (c) of this section at your facility provided the scrap remains segregated until charge make-up.
- (b) You must prepare and operate at all times according to a written certification that the foundry purchases and uses only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics, or free organic liquids. For the purpose of this paragraph (b), "free organic liquids" is defined as material that fails the paint filter test by EPA Method 9095A, "Paint Filter Liquids Test" (Revision 1, December 1996), as published in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (incorporated by reference—see §63.14). Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification.
- (c) You must prepare and operate at all times according to a written plan for the selection and inspection of iron and steel scrap to minimize, to the extent practicable, the amount of organics and HAP metals in the charge materials used by the iron and steel foundry. This scrap selection and inspection plan is subject to approval by the Administrator. You must keep a copy of the plan onsite and readily available to all plant personnel with materials acquisition or inspection duties. You must provide a copy of the material specifications to each of your scrap vendors. Each plan must include the information specified in paragraphs (c)(1) through (3) of this section.
 - (1) A materials acquisition program to limit organic contaminants according to the requirements in paragraph (c)(1)(i) or (ii) of this section, as applicable.
 - (i) For scrap charged to a scrap preheater, electric arc metal melting furnace, or electric induction metal melting furnace, specifications for scrap materials to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, organic liquids, and a program to ensure the scrap materials are drained of free liquids; or

(ii) For scrap charged to a cupola metal melting furnace, specifications for scrap materials to be depleted (to the extent practicable) of the presence of chlorinated plastic, and a program to ensure the scrap materials are drained of free liquids.

(2) A materials acquisition program specifying that the scrap supplier remove accessible mercury switches from the trunks and hoods of any automotive bodies contained in the scrap and remove accessible lead components such as batteries and wheel weights. You must either obtain and maintain onsite a copy of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable, or document your attempts to obtain a copy of these procedures from the scrap suppliers servicing your area.

(3) Procedures for visual inspection of a representative portion, but not less than 10 percent, of all incoming scrap shipments to ensure the materials meet the specifications.

(i) The inspection procedures must identify the location(s) where inspections are to be performed for each type of shipment. Inspections may be performed at the scrap supplier's facility. The selected location(s) must provide a reasonable vantage point, considering worker safety, for visual inspection.

(ii) The inspection procedures must include recordkeeping requirements that document each visual inspection and the results.

(iii) The inspection procedures must include provisions for rejecting or returning entire or partial scrap shipments that do not meet specifications and limiting purchases from vendors whose shipments fail to meet specifications for more than three inspections in one calendar year.

(iv) If the inspections are performed at the scrap supplier's facility, the inspection procedures must include an explanation of how the periodic inspections ensure that not less than 10 percent of scrap purchased from each supplier is subject to inspection.

(d) For each furan warm box mold or core making line in a new or existing iron and steel foundry, you must use a binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation as determined by the Material Safety Data Sheet. This requirement does not apply to the resin portion of the binder system.

(e) For each scrap preheater at an existing iron and steel foundry, you must meet either the requirement in paragraph (e)(1) or (2) of this section. As an alternative to the requirement in paragraph (e)(1) or (2) of this section, you must meet the VOHAP emissions limit in §63.7690(a)(9).

(1) You must operate and maintain a gas-fired preheater where the flame directly contacts the scrap charged; or

(2) You must charge only material that is subject to and in compliance with the scrap certification requirement in paragraph (b) of this section.

(f) For each scrap preheater at a new iron and steel foundry, you must charge only material that is subject to and in compliance with the scrap certification requirement in paragraph (b) of this section. As an alternative to this requirement, you must meet the VOHAP emissions limit in §63.7690(a)(9).

[69 FR 21923, Apr. 22, 2004, as amended at 70 FR 29404, May 20, 2005; 73 FR 7218, Feb. 7, 2008]

Operation and Maintenance Requirements

§ 63.7710 What are my operation and maintenance requirements?

(a) As required by §63.6(e)(1)(i), you must always operate and maintain your iron and steel foundry, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

(b) You must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emissions source subject to a PM, metal HAP, TEA, or VOHAP emissions limit in §63.7690(a). Your operation and maintenance plan also must include procedures for igniting gases from mold vents in pouring areas and pouring stations that use a sand mold system. This operation and maintenance plan is subject to

approval by the Administrator. Each plan must contain the elements described in paragraphs (b)(1) through (6) of this section.

(1) Monthly inspections of the equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). The operation and maintenance plan must also include requirements to repair the defect or deficiency as soon as practicable.

(2) Operating limits for each capture system for an emissions source subject to an emissions limit or standard for VOHAP or TEA in §63.7690(a)(8) through (11). You must establish the operating according to the requirements in paragraphs (b)(2)(i) through (iii) of this section.

(i) Select operating limit parameters appropriate for the capture system design that are representative and reliable indicators of the performance of the capture system. At a minimum, you must use appropriate operating limit parameters that indicate the level of the ventilation draft and damper position settings for the capture system when operating to collect emissions, including revised settings for seasonal variations. Appropriate operating limit parameters for ventilation draft include, but are not limited to: volumetric flow rate through each separately ducted hood, total volumetric flow rate at the inlet to the control device to which the capture system is vented, fan motor amperage, or static pressure. Any parameter for damper position setting may be used that indicates the duct damper position related to the fully open setting.

(ii) For each operating limit parameter selected in paragraph (b)(2)(i) of this section, designate the value or setting for the parameter at which the capture system operates during the process operation. If your operation allows for more than one process to be operating simultaneously, designate the value or setting for the parameter at which the capture system operates during each possible configuration that you may operate (*i.e.*, the operating limits with one furnace melting, two melting, as applicable to your plant).

(iii) Include documentation in your plan to support your selection of the operating limits established for your capture system. This documentation must include a description of the capture system design, a description of the capture system operating during production, a description of each selected operating limit parameter, a rationale for why you chose the parameter, a description of the method used to monitor the parameter according to the requirements of §63.7740(a), and the data used to set the value or setting for the parameter for each of your process configurations.

(3) Preventative maintenance plan for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(4) A site-specific monitoring plan for each bag leak detection system. For each bag leak detection system that operates on the triboelectric effect, the monitoring plan must be consistent with the recommendations contained in the U.S. Environmental Protection Agency guidance document "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015). This baghouse monitoring plan is subject to approval by the Administrator. The owner or operator shall operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. The plan must address all of the items identified in paragraphs (b)(4)(i) through (v) of this section.

(i) Installation of the bag leak detection system.

(ii) Initial and periodic adjustment of the bag leak detection system including how the alarm set-point will be established.

(iii) Operation of the bag leak detection system including quality assurance procedures.

(iv) How the bag leak detection system will be maintained including a routine maintenance schedule and spare parts inventory list.

(v) How the bag leak detection system output will be recorded and stored.

(5) Corrective action plan for each baghouse. The plan must include the requirement that, in the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Corrective actions taken may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse compartment.

(v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system.

(vi) Making process changes.

(vii) Shutting down the process producing the PM emissions.

(6) Procedures for providing an ignition source to mold vents of sand mold systems in each pouring area and pouring station unless you determine the mold vent gases either are not ignitable, ignite automatically, or cannot be ignited due to accessibility or safety issues. You must document and maintain records of this determination. The determination of ignitability, accessibility, and safety may encompass multiple casting patterns provided the castings utilize similar sand-to-metal ratios, binder formulations, and coating materials. The determination of ignitability must be based on observations of the mold vents within 5 minutes of pouring, and the flame must be present for at least 15 seconds for the mold vent to be considered ignited. For the purpose of this determination:

(i) Mold vents that ignite more than 75 percent of the time without the presence of an auxiliary ignition source are considered to ignite automatically; and

(ii) Mold vents that do not ignite automatically and cannot be ignited in the presence of an auxiliary ignition source more than 25 percent of the time are considered to be not ignitable.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7218, Feb. 7, 2008]

General Compliance Requirements

§ 63.7720 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, or malfunction.

(b) During the period between the compliance date specified for your iron and steel foundry in §63.7683 and the date when applicable operating limits have been established during the initial performance test, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.

(c) You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3). The startup, shutdown, and malfunction plan also must specify what constitutes a shutdown of a cupola and how to determine that operating conditions are normal following startup of a cupola.

[69 FR 21923, Apr. 22, 2004, as amended at 71 FR 20468, Apr. 20, 2006]

Initial Compliance Requirements

§ 63.7730 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) As required by §63.7(a)(2), you must conduct a performance test no later than 180 calendar days after the compliance date that is specified in §63.7683 for your iron and steel foundry to demonstrate initial compliance with each emissions limitation in §63.7690 that applies to you.

(b) For each work practice standard in §63.7700 and each operation and maintenance requirement in §63.7710 that applies to you where initial compliance is not demonstrated using a performance test, you must demonstrate initial compliance no later than 30 calendar days after the compliance date that is specified for your iron and steel foundry in §63.7683.

(c) If you commenced construction or reconstruction between December 23, 2002 and April 22, 2004, you must demonstrate initial compliance with either the proposed emissions limit or the promulgated emissions limit no later than October 19, 2004 or no later than 180 calendar days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) If you commenced construction or reconstruction between December 23, 2002 and April 22, 2004, and you chose to comply with the proposed emissions limit when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emissions limit by October 19, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

§ 63.7731 When must I conduct subsequent performance tests?

(a) You must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP, VOHAP, and TEA emissions limitations in §63.7690 for your iron and steel foundry no less frequently than every 5 years and each time you elect to change an operating limit or to comply with a different alternative emissions limit, if applicable. The requirement to conduct performance tests every 5 years does not apply to an emissions source for which a continuous emissions monitoring system (CEMS) is used to demonstrate continuous compliance.

(b) You must conduct subsequent performance tests to demonstrate compliance with the opacity limit in §63.7690(a)(7) for your iron and steel foundry no less frequently than once every 6 months.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7219, Feb. 7, 2008]

§ 63.7732 What test methods and other procedures must I use to demonstrate initial compliance with the emissions limitations?

(a) You must conduct each performance test that applies to your iron and steel foundry based on your selected compliance alternative, if applicable, according to the requirements in §63.7(e)(1) and the conditions specified in paragraphs (b) through (i) of this section.

(b) To determine compliance with the applicable emissions limit for PM in §63.7690(a)(1) through (6) for a metal melting furnace, scrap preheater, pouring station, or pouring area, follow the test methods and procedures in paragraphs (b)(1) through (6) of this section.

(1) Determine the concentration of PM according to the test methods in 40 CFR part 60, appendix A that are specified in paragraphs (b)(1)(i) through (v) of this section.

(i) Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 5, 5B, 5D, 5F, or 5I, as applicable, to determine the PM concentration. The PM concentration is determined using only the front-half (probe rinse and filter) of the PM catch.

(2) Collect a minimum sample volume of 60 dscf of gas during each PM sampling run. A minimum of three valid test runs are needed to comprise a performance test.

(3) For cupola metal melting furnaces, sample only during times when the cupola is on blast.

(4) For electric arc and electric induction metal melting furnaces, sample only during normal production conditions, which may include, but are not limited to the following cycles: Charging, melting, alloying, refining, slagging, and tapping.

(5) For scrap preheaters, sample only during normal production conditions, which may include, but are not limited to the following cycles: Charging, heating, and discharging.

(6) Determine the total mass of metal charged to the furnace or scrap preheater. For a cupola metal melting furnace at an existing iron and steel foundry that is subject to the PM emissions limit in §63.7690(a)(ii), calculate the PM emissions rate in pounds of PM per ton (lb/ton) of metal charged using Equation 1 of this section:

$$EF_{PM} = C_{PM} \times \left(\frac{Q}{M_{charge}} \right) \times \left(\frac{t_{test}}{7,000} \right) \quad (\text{Eq. 1})$$

Where:

EFPM= Mass emissions rate of PM, pounds of PM per ton (lb/ton) of metal charged;

CPM= Concentration of PM measured during performance test run, gr/dscf;

Q = Volumetric flow rate of exhaust gas, dry standard cubic feet per minute (dscfm);

Mcharge= Mass of metal charged during performance test run, tons;

ttest= Duration of performance test run, minutes; and

7,000 = Unit conversion factor, grains per pound (gr/lb).

(c) To determine compliance with the applicable emissions limit for total metal HAP in §63.7690(a)(1) through (6) for a metal melting furnace, scrap preheater, pouring station, or pouring area, follow the test methods and procedures in paragraphs (c)(1) through (6) of this section.

(1) Determine the concentration of total metal HAP according to the test methods in 40 CFR part 60, appendix A that are specified in paragraphs (c)(1)(i) through (v) of this section.

(i) Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 29 to determine the total metal HAP concentration.

(2) A minimum of three valid test runs are needed to comprise a performance test.

(3) For cupola metal melting furnaces, sample only during times when the cupola is on blast.

(4) For electric arc and electric induction metal melting furnaces, sample only during normal production conditions, which may include, but are not limited to the following cycles: Charging, melting, alloying, refining, slagging, and tapping.

(5) For scrap preheaters, sample only during normal production conditions, which may include, but are not limited to the following cycles: Charging, heating, and discharging.

(6) Determine the total mass of metal charged to the furnace or scrap preheater during each performance test run and calculate the total metal HAP emissions rate (pounds of total metal HAP per ton (lb/ton) of metal charged) using Equation 2 of this section:

$$E_{F_{TMHAP}} = C_{TMHAP} \times \left(\frac{Q}{M_{charge}} \right) \times \left(\frac{t_{test}}{7,000} \right) \quad (\text{Eq. 2})$$

Where:

$E_{F_{TMHAP}}$ = Emissions rate of total metal HAP, pounds of total metal HAP per ton (lb/ton) of metal charged;

C_{TMHAP} = Concentration of total metal HAP measured during performance test run, gr/dscf;

Q = Volumetric flow rate of exhaust gas, dscfm;

M_{charge} = Mass of metal charged during performance test run, tons;

t_{test} = Duration of performance test run, minutes; and

7,000 = Unit conversion factor, gr/lb.

(d) To determine compliance with the opacity limit in §63.7690(a)(7) for fugitive emissions from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry, follow the procedures in paragraphs (d)(1) and (2) of this section.

(1) Using a certified observer, conduct each opacity test according to the requirements in EPA Method 9 (40 CFR part 60, appendix A) and §63.6(h)(5). The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.

(2) During testing intervals when PM performance tests, if applicable, are being conducted, conduct the opacity test such the opacity observations are recorded during the PM performance tests.

(e) To determine compliance with the applicable VOHAP emissions limit in §63.7690(a)(8) for a cupola metal melting furnace or in §63.7690(a)(9) for a scrap preheater, follow the test methods and procedures in paragraphs (e)(1) through (4) of this section.

(1) Determine the VOHAP concentration for each test run according to the test methods in 40 CFR part 60, appendix A that are specified in paragraphs (b)(1)(i) through (v) of this section.

(i) Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 18 to determine the VOHAP concentration. Alternatively, you may use Method 25 to determine the concentration of total gaseous nonmethane organics (TGNMO) or Method 25A to determine the concentration of total organic compounds (TOC), using hexane as the calibration gas.

(2) Determine the average VOHAP, TGNMO, or TOC concentration using a minimum of three valid test runs. Each test run must include a minimum of 60 continuous operating minutes.

(3) For a cupola metal melting furnace, correct the measured concentration of VOHAP, TGNMO, or TOC for oxygen content in the gas stream using Equation 3 of this section:

$$EF_{\text{VOHAP}} = C_{\text{VOHAP}} \times \left(\frac{Q}{M_{\text{air}}} \right) \times \left(\frac{t_{\text{wet}}}{7,000} \right) \quad (\text{Eq. 2})$$

Where:

CVOHAP= Concentration of VOHAP in ppmv as measured by Method 18 in 40 CFR part 60, appendix A or the concentration of TGNMO or TOC in ppmv as hexane as measured by Method 25 or 25A in 40 CFR part 60, appendix A; and

%O₂= Oxygen concentration in gas stream, percent by volume (dry basis).

(4) For a cupola metal melting furnace, measure the combustion zone temperature of the combustion device with the CPMS required in §63.7740(d) during each sampling run in 15-minute intervals. Determine and record the 15-minute average of the three runs.

(f) Follow the applicable procedures in paragraphs (f)(1) through (3) of this section to determine compliance with the VOHAP emissions limit in §63.7690(a)(10) for automated pallet cooling lines or automated shakeout lines.

(1) Follow these procedures to demonstrate compliance by direct measurement of total hydrocarbons (a surrogate for VOHAP) using a volatile organic compound (VOC) CEMS.

(i) Using the VOC CEMS required in §63.7740(g), measure and record the concentration of total hydrocarbons (as hexane) for 180 continuous operating minutes. You must measure emissions at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Reduce the monitoring data to hourly averages as specified in §63.8(g)(2).

(iii) Compute and record the 3-hour average of the monitoring data.

(2) As an alternative to the procedures in paragraph (f)(1) of this section, you may demonstrate compliance with the VOHAP emissions limit in §63.7690(a)(10) by establishing a site-specific TOC emissions limit that is correlated to the VOHAP emissions limit according to the procedures in paragraph (f)(2)(i) through (ix) of this section.

(i) Determine the VOHAP concentration for each test run according to the test methods in 40 CFR part 60, appendix A that are specified in paragraph (f)(2)(ii) through (vi) of this section.

(ii) Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(iii) Method 2, 2A, 2C, 2D, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iv) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(v) Method 4 to determine the moisture content of the stack gas.

(vi) Method 18 to determine the VOHAP concentration. Alternatively, you may use Method 25 to determine the concentration of TGNMO using hexane as the calibration gas.

(vii) Using the CEMS required in §63.7740(g), measure and record the concentration of total hydrocarbons (as hexane) during each of the Method 18 (or Method 25) sampling runs. You must measure emissions at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(viii) Calculate the average VOHAP (or TGNMO) concentration for the source test as the arithmetic average of the concentrations measured for the individual test runs, and determine the average concentration of total hydrocarbon (as hexane) as measured by the CEMS during all test runs.

(ix) Calculate the site-specific VOC emissions limit using Equation 4 of this section:

$$VOC_{\text{limit}} = 20 \times \frac{C_{\text{VOHAP, avg}}}{C_{\text{CEM}}} \quad (\text{Eq. 4})$$

Where:

CVOHAP,avg= Average concentration of VOHAP for the source test in ppmv as measured by Method 18 in 40 CFR part 60, appendix A or the average concentration of TGNMO for the source test in ppmv as hexane as measured by Method 25 in 40 CFR part 60, appendix A; and

CCEM= Average concentration of total hydrocarbons in ppmv as hexane as measured using the CEMS during the source test.

(3) For two or more exhaust streams from one or more automated conveyor and pallet cooling lines or automated shakeout lines, compute the flow-weighted average concentration of VOHAP emissions for each combination of exhaust streams using Equation 5 of this section:

$$C_w = \frac{\sum_{i=1}^n C_i Q_i}{\sum_{i=1}^n Q_i} \quad (\text{Eq. 5})$$

Where:

Cw= Flow-weighted concentration of VOHAP or VOC, ppmv (as hexane);

Ci= Concentration of VOHAP or VOC from exhaust stream "i", ppmv (as hexane);

n = Number of exhaust streams sampled; and

Qi= Volumetric flow rate of effluent gas from exhaust stream "i", dscfm.

(g) To determine compliance with the emissions limit or standard in §63.7690(a)(11) for a TEA cold box mold or core making line, follow the test methods in 40 CFR part 60, appendix A, specified in paragraphs (g)(1) through (4) of this section.

(1) Determine the TEA concentration for each test run according to the test methods in 40 CFR part 60, appendix A that are specified in paragraphs (g)(1)(i) through (v) of this section.

(i) Method 1 or 1A to select sampling port locations and the number of traverse points in each stack or duct. If you elect to meet the 99 percent reduction standard, sampling sites must be located both at the inlet to the control device and at the outlet of the control device prior to any releases to the atmosphere. If you elect to meet the concentration limit, the sampling

site must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 18 to determine the TEA concentration. Alternatively, you may use NIOSH Method 2010 (incorporated by reference—see §63.14) to determine the TEA concentration provided the performance requirements outlined in section 13.1 of EPA Method 18 are satisfied. The sampling option and time must be sufficiently long such that either the TEA concentration in the field sample is at least 5 times the limit of detection for the analytical method or the test results calculated using the laboratory's reported analytical detection limit for the specific field samples are less than 1/5 of the applicable emissions limit. When using Method 18, the adsorbent tube approach, as described in section 8.2.4 of Method 18, may be required to achieve the necessary analytical detection limits. The sampling time must be at least 1 hour in all cases.

(2) If you use a wet acid scrubber, conduct the test as soon as practicable after adding fresh acid solution and the system has reached normal operating conditions.

(3) If you use a wet acid scrubber that is subject to the operating limit in §63.7690(b)(5)(ii) for pH level, determine the pH of the scrubber blowdown using the procedures in paragraph (g)(3)(i) or (ii) of this section.

(i) Measure the pH of the scrubber blowdown with the CPMS required in §63.7740(f)(2) during each TEA sampling run in intervals of no more than 15 minutes. Determine and record the 3-hour average; or

(ii) Measure and record the pH level using the probe and meter required in §63.7740(f)(2) once each sampling run. Determine and record the average pH level for the three runs.

(4) If you are subject to the 99 percent reduction standard, calculate the mass emissions reduction using Equation 6 of this section:

$$\% \text{ reduction} = \frac{E_i - E_o}{E_i} \times 100\% \quad (\text{Eq. 6})$$

Where:

E_i= Mass emissions rate of TEA at control device inlet, kilograms per hour (kg/hr); and

E_o= Mass emissions rate of TEA at control device outlet, kg/hr.

(h) To determine compliance with the PM or total metal HAP emissions limits in §63.7690(a)(1) through (6) when one or more regulated emissions sources are combined with either another regulated emissions source subject to a different emissions limit or other non-regulated emissions sources, you may demonstrate compliance using one of the procedures in paragraphs (h)(1) through (3) of this section.

(1) Meet the most stringent applicable emissions limit for the regulated emissions sources included in the combined emissions stream for the combined emissions stream.

(2) Use the procedures in paragraphs (h)(2)(i) through (iii) of this section.

(i) Determine the volumetric flow rate of the individual regulated streams for which emissions limits apply.

(ii) Calculate the flow-weighted average emissions limit, considering only the regulated streams, using Equation 5 of this section, except C_{wfs} the flow-weighted average emissions limit for PM or total metal HAP in the exhaust stream, gr/dscf; and C_{iis} the concentration of PM or total metal HAP in exhaust stream "i", gr/dscf.

(iii) Meet the calculated flow-weighted average emissions limit for the regulated emissions sources included in the combined emissions stream for the combined emissions stream.

(3) Use the procedures in paragraphs (h)(3)(i) through (iii) of this section.

(i) Determine the PM or total metal HAP concentration of each of the regulated streams prior to the combination with other exhaust streams or control device.

(ii) Measure the flow rate and PM or total metal HAP concentration of the combined exhaust stream both before and after the control device and calculate the mass removal efficiency of the control device using Equation 6 of this section, except E_{iis} the mass emissions rate of PM or total metal HAP at the control device inlet, lb/hr and E_{ois} the mass emissions rate of PM or total metal HAP at the control device outlet, lb/hr.

(iii) Meet the applicable emissions limit based on the calculated PM or total metal HAP concentration for the regulated emissions sources using Equation 7 of this section:

$$C_{\text{released}} = C_i \times \left(1 - \frac{\% \text{reduction}}{100} \right) \quad (\text{Eq. 7})$$

Where:

C_{released} = Calculated concentration of PM (or total metal HAP) predicted to be released to the atmosphere from the regulated emissions source, gr/dscf; and

C_i = Concentration of PM (or total metal HAP) in the uncontrolled regulated exhaust stream, gr/dscf.

(i) To determine compliance with an emissions limit for situations when multiple sources are controlled by a single control device, but only one source operates at a time, or other situations that are not expressly considered in paragraphs (b) through (h) of this section, a site-specific test plan should be submitted to the Administrator for approval according to the requirements in §63.7(c)(2) and (3).

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7219, Feb. 7, 2008]

§ 63.7733 What procedures must I use to establish operating limits?

(a) For each capture system subject to operating limits in §63.7690(b)(1)(ii), you must establish site-specific operating limits in your operation and maintenance plan according to the procedures in paragraphs (a)(1) through (3) of this section.

(1) Concurrent with applicable emissions and opacity tests, measure and record values for each of the operating limit parameters in your capture system operation and maintenance plan according to the monitoring requirements in §63.7740(a).

(2) For any dampers that are manually set and remain at the same position at all times the capture system is operating, the damper position must be visually checked and recorded at the beginning and end of each run.

(3) Review and record the monitoring data. Identify and explain any times the capture system operated outside the applicable operating limits.

(b) For each wet scrubber subject to the operating limits in §63.7690(b)(2) for pressure drop and scrubber water flow rate, you must establish site-specific operating limits according to the procedures specified in paragraphs (b)(1) and (2) of this section.

- (1) Using the CPMS required in §63.7740(c), measure and record the pressure drop and scrubber water flow rate in intervals of no more than 15 minutes during each PM test run.
- (2) Compute and record the average pressure drop and average scrubber water flow rate for each valid sampling run in which the applicable emissions limit is met.
- (c) For each combustion device applied to emissions from a scrap preheater or TEA cold box mold or core making line subject to the operating limit in §63.7690(b)(4) for combustion zone temperature, you must establish a site-specific operating limit according to the procedures specified in paragraphs (c)(1) and (2) of this section.
- (1) Using the CPMS required in §63.7740(e), measure and record the combustion zone temperature during each sampling run in intervals of no more than 15 minutes.
- (2) Compute and record the average combustion zone temperature for each valid sampling run in which the applicable emissions limit is met.
- (d) For each acid wet scrubber subject to the operating limit in §63.7690(b)(5), you must establish a site-specific operating limit for scrubbing liquid flow rate according to the procedures specified in paragraphs (d)(1) and (2) of this section.
- (1) Using the CPMS required in §63.7740(f), measure and record the scrubbing liquid flow rate during each TEA sampling run in intervals of no more than 15 minutes.
- (2) Compute and record the average scrubbing liquid flow rate for each valid sampling run in which the applicable emissions limit is met.
- (e) You may change the operating limits for a capture system, wet scrubber, acid wet scrubber, or combustion device if you meet the requirements in paragraphs (e)(1) through (3) of this section.
- (1) Submit a written notification to the Administrator of your request to conduct a new performance test to revise the operating limit.
- (2) Conduct a performance test to demonstrate compliance with the applicable emissions limitation in §63.7690.
- (3) Establish revised operating limits according to the applicable procedures in paragraphs (a) through (d) of this section.
- (f) You may use a previous performance test (conducted since December 22, 2002) to establish an operating limit provided the test meets the requirements of this subpart.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7221, Feb. 7, 2008]

§ 63.7734 How do I demonstrate initial compliance with the emissions limitations that apply to me?

- (a) You have demonstrated initial compliance with the emissions limits in §63.7690(a) by meeting the applicable conditions in paragraphs (a)(1) through (11) of this section. When alternative emissions limitations are provided for a given emissions source, you are not restricted in the selection of which applicable alternative emissions limitation is used to demonstrate compliance.
- (1) For each electric arc metal melting furnace, electric induction metal melting furnace, or scrap preheater at an existing iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(b), did not exceed 0.005 gr/dscf; or
- (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.0004 gr/dscf.

- (2) For each cupola metal melting furnace at an existing iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(b), did not exceed 0.006 gr/dscf; or
 - (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.0005 gr/dscf; or
 - (iii) The average PM mass emissions rate, determined according to the performance test procedures in §63.7732(b), did not exceed 0.10 pound of PM per ton (lb/ton) of metal charged; or
 - (iv) The average total metal HAP mass emissions rate, determined according to the performance test procedures in §63.7732(c), did not exceed 0.008 pound of total metal HAP per ton (lb/ton) of metal charged.
- (3) For each cupola metal melting furnace or electric arc metal melting furnace at a new iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(b), did not exceed 0.002 gr/dscf; or
 - (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.0002 gr/dscf.
- (4) For each electric induction metal melting furnace or scrap preheater at a new iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(b), did not exceed 0.001 gr/dscf; or
 - (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.00008 gr/dscf.
- (5) For each pouring station at an existing iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, measured according to the performance test procedures in §63.7732(b), did not exceed 0.010 gr/dscf; or
 - (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.0008 gr/dscf.
- (6) For each pouring area or pouring station at a new iron and steel foundry,
- (i) The average PM concentration in the exhaust stream, measured according to the performance test procedures in §63.7732(b), did not exceed 0.002 gr/dscf; or
 - (ii) The average total metal HAP concentration in the exhaust stream, determined according to the performance test procedures in §63.7732(c), did not exceed 0.0002 gr/dscf.
- (7) For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the opacity of fugitive emissions from foundry operations discharged to the atmosphere, determined according to the performance test procedures in §63.7732(d), did not exceed 20 percent (6-minute average), except for one 6-minute average per hour that did not exceed 27 percent opacity.
- (8) For each cupola metal melting furnace at a new or existing iron and steel foundry, the average VOHAP concentration, determined according to the performance test procedures in §63.7732(e), did not exceed 20 ppmv corrected to 10 percent oxygen.
- (9) For each scrap preheater at an existing iron and steel foundry that does not meet the work practice standards in §63.7700(e)(1) or (2) and for each scrap preheater at a new iron and steel foundry that does not meet the work practice

standard in §63.7700(f), the average VOHAP concentration determined according to the performance test procedures in §63.7732(e), did not exceed 20 ppmv.

(10) For one or more automated conveyor and pallet cooling lines that use a sand mold system or automated shakeout lines that use a sand mold system at a new foundry,

(i) You have reduced the data from the CEMS to 3-hour averages according to the performance test procedures in §63.7732(f)(1) or (2); and

(ii) The 3-hour flow-weighted average VOHAP concentration, measured according to the performance test procedures in §63.7732(f)(1) or (2), did not exceed 20 ppmv.

(11) For each TEA cold box mold or core making line in a new or existing iron and steel foundry, the average TEA concentration, determined according to the performance test procedures in §63.7732(g), did not exceed 1 ppmv or was reduced by 99 percent.

(b) You have demonstrated initial compliance with the operating limits in §63.7690(b) if:

(1) For each capture system subject to the operating limit in §63.7690(b)(1)(ii),

(i) You have established appropriate site-specific operating limits in your operation and maintenance plan according to the requirements in §63.7710(b); and

(ii) You have a record of the operating parameter data measured during the performance test in accordance with §63.7733(a); and

(2) For each wet scrubber subject to the operating limits in §63.7690(b)(2) for pressure drop and scrubber water flow rate, you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with §63.7733(b).

(3) For each combustion device subject to the operating limit in §63.7690(b)(3) for combustion zone temperature, you have a record of the combustion zone temperature measured during the performance test in accordance with §63.7732(e)(4).

(4) For each combustion device subject to the operating limit in §63.7690(b)(4) for combustion zone temperature, you have established appropriate site-specific operating limits and have a record of the combustion zone temperature measured during the performance test in accordance with §63.7733(c).

(5) For each acid wet scrubber subject to the operating limits in §63.7690(b)(5) for scrubbing liquid flow rate and scrubber blowdown pH,

(i) You have established appropriate site-specific operating limits for the scrubbing liquid flow rate and have a record of the scrubbing liquid flow rate measured during the performance test in accordance with §63.7733(d); and

(ii) You have a record of the pH of the scrubbing liquid blowdown measured during the performance test in accordance with §63.7732(g)(3).

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7221, Feb. 7, 2008]

§ 63.7735 How do I demonstrate initial compliance with the work practice standards that apply to me?

(a) For each iron and steel foundry subject to the certification requirement in §63.7700(b), you have demonstrated initial compliance if you have certified in your notification of compliance status that: "At all times, your foundry will purchase and use only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics, or free organic liquids."

(b) For each iron and steel foundry subject to the requirements in §63.7700(c) for a scrap inspection and selection plan, you have demonstrated initial compliance if you have certified in your notification of compliance status that:

- (1) You have submitted a written plan to the Administrator for approval according to the requirements in §63.7700(c); and
- (2) You will operate at all times according to the plan requirements.

(c) For each furan warm box mold or core making line in a new or existing foundry subject to the work practice standard in §63.7700(d), you have demonstrated initial compliance if you have certified in your notification of compliance status that:

- (1) You will meet the no methanol requirement for the catalyst portion of each binder chemical formulation; and
- (2) You have records documenting your certification of compliance, such as a material safety data sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet, onsite and available for inspection.

(d) For each scrap preheater at an existing iron and steel foundry subject to the work practice standard in §63.7700(e)(1) or (2), you have demonstrated initial compliance if you have certified in your notification of compliance status that:

- (1) You have installed a gas-fired preheater where the flame directly contacts the scrap charged, you will operate and maintain each gas-fired scrap preheater such that the flame directly contacts the scrap charged, and you have records documenting your certification of compliance that are onsite and available for inspection; or
- (2) You will charge only material that is subject to and in compliance with the scrap certification requirements in §63.7700(b) and you have records documenting your certification of compliance that are onsite and available for inspection.

(e) For each scrap preheater at a new iron and steel foundry subject to the work practice standard in §63.7700(f), you have demonstrated initial compliance if you have certified in your notification of compliance status that you will charge only material that is subject to and in compliance with the scrap certification requirements in §63.7700(b) and you have records documenting your certification of compliance that are onsite and available for inspection.

[69 FR 21923, Apr. 22, 2004, as amended at 70 FR 29404, May 20, 2005]

§ 63.7736 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system subject to an operating limit in §63.7690(b), you have demonstrated initial compliance if you have met the conditions in paragraphs (a)(1) and (2) of this section.

- (1) You have certified in your notification of compliance status that:
 - (i) You have submitted the capture system operation and maintenance plan to the Administrator for approval according to the requirements of §63.7710(b); and
 - (ii) You will inspect, operate, and maintain each capture system according to the procedures in the plan.
- (2) You have certified in your performance test report that the system operated during the test at the operating limits established in your operation and maintenance plan.

(b) For each control device subject to an operating limit in §63.7690(b), you have demonstrated initial compliance if you have certified in your notification of compliance status that:

- (1) You have submitted the control device operation and maintenance plan to the Administrator for approval according to the requirements of §63.7710(b); and
- (2) You will inspect, operate, and maintain each control device according to the procedures in the plan.

(c) For each bag leak detection system, you have demonstrated initial compliance if you have certified in your notification of compliance status that:

(1) You have submitted the bag leak detection system monitoring information to the Administrator within the written O&M plan for approval according to the requirements of §63.7710(b);

(2) You will inspect, operate, and maintain each bag leak detection system according to the procedures in the plan; and

(3) You will follow the corrective action procedures for bag leak detection system alarms according to the requirements in the plan.

(d) For each pouring area and pouring station in a new or existing foundry, you have demonstrated initial compliance if you have certified in your notification of compliance status report that:

(1) You have submitted the mold vent ignition plan to the Administrator for approval according to the requirements in §63.7710(b); and

(2) You will follow the procedures for igniting mold vent gases according to the requirements in the plan.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7221, Feb. 7, 2008]

Continuous Compliance Requirements

§ 63.7740 What are my monitoring requirements?

(a) For each capture system subject to an operating limit in §63.7690(b)(1), you must install, operate, and maintain a CPMS according to the requirements in §63.7741(a) and the requirements in paragraphs (a)(1) and (2) of this section.

(1) If you use a flow measurement device to monitor the operating limit parameter, you must at all times monitor the hourly average rate (e.g., the hourly average actual volumetric flow rate through each separately ducted hood or the average hourly total volumetric flow rate at the inlet to the control device).

(2) Dampers that are manually set and remain in the same position are exempt from the requirement to install and operate a CPMS. If dampers are not manually set and remain in the same position, you must make a visual check at least once every 24 hours to verify that each damper for the capture system is in the same position as during the initial performance test.

(b) For each negative pressure baghouse or positive pressure baghouse equipped with a stack that is applied to meet any PM or total metal HAP emissions limitation in this subpart, you must at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in §63.7741(b).

(c) For each baghouse, regardless of type, that is applied to meet any PM or total metal HAP emissions limitation in this subpart, you must conduct inspections at their specified frequencies according to the requirements specified in paragraphs (c)(1) through (8) of this section.

(1) Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual.

(2) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.

(3) Check the compressed air supply for pulse-jet baghouses each day.

(4) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.

(5) Check bag cleaning mechanisms for proper functioning through monthly visual inspections or equivalent means.

(6) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneaded or bent) or lying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.

(7) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.

(8) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

(d) For each wet scrubber subject to the operating limits in §63.7690(b)(2), you must at all times monitor the 3-hour average pressure drop and scrubber water flow rate using CPMS according to the requirements in §63.7741(c).

(e) For each combustion device subject to the operating limit in §63.7690(b)(3), you must at all times monitor the 15-minute average combustion zone temperature using a CPMS according to the requirements of §63.7741(d).

(f) For each combustion device subject to the operating limit in §63.7690(b)(4), you must at all times monitor the 3-hour average combustion zone temperature using CPMS according to the requirements in §63.7741(d).

(g) For each wet acid scrubber subject to the operating limits in §63.7690(b)(5),

(1) You must at all times monitor the 3-hour average scrubbing liquid flow rate using CPMS according to the requirements of §63.7741(e)(1); and

(2) You must at all times monitor the 3-hour average pH of the scrubber blowdown using CPMS according to the requirements in §63.7741(e)(2) or measure and record the pH of the scrubber blowdown once per production cycle using a pH probe and meter according to the requirements in §63.7741(e)(3).

(h) For one or more automated conveyor and pallet cooling lines and automated shakeout lines at a new iron and steel foundry subject to the VOHAP emissions limit in §63.7690(a)(10), you must at all times monitor the 3-hour average VOHAP concentration using a CEMS according to the requirements of §63.7741(g).

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7221, Feb. 7, 2008]

§ 63.7741 What are the installation, operation, and maintenance requirements for my monitors?

(a) For each capture system subject to an operating limit in §63.7690(b)(1), you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a)(1) through (3) of this section.

(1) If you use a flow measurement device to monitor an operating limit parameter for a capture system, you must meet the requirements in paragraphs (a)(1)(i) through (iv) of this section.

(i) Locate the flow sensor and other necessary equipment such as straightening vanes in a position that provides a representative flow and that reduces swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(ii) Use a flow sensor with a minimum measurement sensitivity of 2 percent of the flow rate.

(iii) Conduct a flow sensor calibration check at least semiannually.

(iv) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.

(2) If you use a pressure measurement device to monitor the operating limit parameter for a capture system, you must meet the requirements in paragraphs (a)(2)(i) through (vi) of this section.

(i) Locate the pressure sensor(s) in or as close as possible to a position that provides a representative measurement of the pressure and that minimizes or eliminates pulsating pressure, vibration, and internal and external corrosion.

(ii) Use a gauge with a minimum measurement sensitivity of 0.5 inch of water or a transducer with a minimum measurement sensitivity of 1 percent of the pressure range.

(iii) Check the pressure tap for pluggage daily. If a "non-clogging" pressure tap is used, check for pluggage monthly.

(iv) Using a manometer or equivalent device such as a magnahelic or other pressure indicating transmitter, check gauge and transducer calibration quarterly.

(v) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range, or install a new pressure sensor.

(vi) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.

(3) Record the results of each inspection, calibration, and validation check.

(b) For each negative pressure baghouse or positive pressure baghouse equipped with a stack that is applied to meet any PM or total metal HAP emissions limitation in this subpart, you must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (b)(1) through (7) of this section.

(1) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(2) The bag leak detection system sensor must provide output of relative particulate matter loadings and the owner or operator shall continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger).

(3) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(4) The initial adjustment of the system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (if applicable).

(5) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time without approval from the Administrator. Except, once per quarter, you may adjust the sensitivity of the bag leak detection system to account for seasonable effects including temperature and humidity according to the procedures in the operation and maintenance plan required by §63.7710(b).

(6) For negative pressure, induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector sensor must be installed downstream of the baghouse and upstream of any wet scrubber.

(7) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(c) For each wet scrubber subject to the operating limits in §63.7690(b)(2), you must install and maintain CPMS to measure and record the pressure drop and scrubber water flow rate according to the requirements in paragraphs (c)(1) and (2) of this section.

(1) For each CPMS for pressure drop you must:

(i) Locate the pressure sensor in or as close as possible to a position that provides a representative measurement of the pressure drop and that minimizes or eliminates pulsating pressure, vibration, and internal and external corrosion.

(ii) Use a gauge with a minimum measurement sensitivity of 0.5 inch of water or a transducer with a minimum measurement sensitivity of 1 percent of the pressure range.

- (iii) Check the pressure tap for pluggage daily. If a “non-clogging” pressure tap is used, check for pluggage monthly.
 - (iv) Using a manometer or equivalent device such as a magnahelic or other pressure indicating transmitter, check gauge and transducer calibration quarterly.
 - (v) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range, or install a new pressure sensor.
 - (vi) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.
- (2) For each CPMS for scrubber liquid flow rate, you must:
- (i) Locate the flow sensor and other necessary equipment in a position that provides a representative flow and that reduces swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
 - (ii) Use a flow sensor with a minimum measurement sensitivity of 2 percent of the flow rate.
 - (iii) Conduct a flow sensor calibration check at least semiannually according to the manufacturer's instructions.
 - (iv) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.
- (d) For each combustion device subject to the operating limit in §63.7690(b)(3) or (4), you must install and maintain a CPMS to measure and record the combustion zone temperature according to the requirements in paragraphs (d)(1) through (8) of this section.
- (1) Locate the temperature sensor in a position that provides a representative temperature.
 - (2) For a noncryogenic temperature range, use a temperature sensor with a minimum tolerance of 2.2 °C or 0.75 percent of the temperature value, whichever is larger.
 - (3) For a cryogenic temperature range, use a temperature sensor with a minimum tolerance of 2.2 °C or 2 percent of the temperature value, whichever is larger.
 - (4) Shield the temperature sensor system from electromagnetic interference and chemical contaminants.
 - (5) If you use a chart recorder, it must have a sensitivity in the minor division of at least 20 °F.
 - (6) Perform an electronic calibration at least semiannually according to the procedures in the manufacturer's owners manual. Following the electronic calibration, conduct a temperature sensor validation check, in which a second or redundant temperature sensor placed nearby the process temperature sensor must yield a reading within 16.7 °C of the process temperature sensor's reading.
 - (7) Conduct calibration and validation checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range, or install a new temperature sensor.
 - (8) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.
- (e) For each wet acid scrubber subject to the operating limits in §63.7690(b)(5), you must:
- (1) Install and maintain CPMS to measure and record the scrubbing liquid flow rate according to the requirements in paragraph (c)(2) of this section; and
 - (2) Install and maintain CPMS to measure and record the pH of the scrubber blowdown according to the requirements in paragraph (e)(2)(i) through (iv) of this section.

(i) Locate the pH sensor in a position that provides a representative measurement of the pH and that minimizes or eliminates internal and external corrosion.

(ii) Use a gauge with a minimum measurement sensitivity of 0.1 pH or a transducer with a minimum measurement sensitivity of 5 percent of the pH range.

(iii) Check gauge calibration quarterly and transducer calibration monthly using a manual pH gauge.

(iv) At least monthly, visually inspect all components, including all electrical and mechanical connections, for proper functioning.

(3) As an alternative to the CPMS required in paragraph (e)(2) of this section, you may use a pH probe to extract a sample for analysis by a pH meter that meets the requirements in paragraphs (e)(3)(i) through (iii) of this section.

(i) The pH meter must have a range of at least 1 to 5 or more;

(ii) The pH meter must have an accuracy of ± 0.1 ; and

(iii) The pH meter must have a resolution of at least 0.1 pH.

(f) You must operate each CPMS used to meet the requirements of this subpart according to the requirements specified in paragraphs (f)(1) through (3) of this section.

(1) Each CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of three of the required four data points to constitute a valid hour of data.

(2) Each CPMS must have valid hourly data for 100 percent of every averaging period.

(3) Each CPMS must determine and record the hourly average of all recorded readings and the 3-hour average of all recorded readings.

(g) For each automated conveyor and pallet cooling line and automated shakeout line at a new iron and steel foundry subject to the VOHAP emissions limit in §63.7690(a)(10), you must install, operate, and maintain a CEMS to measure and record the concentration of VOHAP emissions according to the requirements in paragraphs (g)(1) through (3) of this section.

(1) You must install, operate, and maintain each CEMS according to Performance Specification 8 in 40 CFR part 60, appendix B.

(2) You must conduct a performance evaluation of each CEMS according to the requirements of §63.8 and Performance Specification 8 in 40 CFR part 60, appendix B.

(3) You must operate each CEMS according to the requirements specified in paragraph (g)(3)(i) through (iv) of this section.

(i) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(ii) You must reduce CEMS data as specified in §63.8(g)(2).

(iii) Each CEMS must determine and record the 3-hour average emissions using all the hourly averages collected for periods during which the CEMS is not out-of-control.

(iv) Record the results of each inspection, calibration, and validation check.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7221, Feb. 7, 2008]

§ 63.7742 How do I monitor and collect data to demonstrate continuous compliance?

(a) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) any time a source of emissions is operating.

(b) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emissions or operating levels or to fulfill a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing compliance.

(c) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

§ 63.7743 How do I demonstrate continuous compliance with the emissions limitations that apply to me?

(a) You must demonstrate continuous compliance by meeting the applicable conditions in paragraphs (a)(1) through (12) of this section. When alternative emissions limitations are provided for a given emissions source, you must comply with the alternative emissions limitation most recently selected as your compliance alternative.

(1) For each electric arc metal melting furnace, electric induction metal melting furnace, or scrap preheater at an existing iron and steel foundry,

(i) Maintaining the average PM concentration in the exhaust stream at or below 0.005 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.0004 gr/dscf.

(2) For each cupola metal melting furnace at an existing iron and steel foundry,

(i) Maintaining the average PM concentration in the exhaust stream at or below 0.006 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.0005 gr/dscf; or

(iii) Maintaining the average PM mass emissions rate at or below 0.10 pound of PM per ton (lb/ton) of metal charged; or

(iv) Maintaining the average total metal HAP mass emissions rate at or below 0.008 pound of total metal HAP per ton (lb/ton) of metal charged.

(3) For each cupola metal melting furnace or electric arc metal melting furnace at new iron and steel foundry, (i) Maintaining the average PM concentration in the exhaust stream at or below 0.002 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.0002 gr/dscf.

(4) For each electric induction metal melting furnace or scrap preheater at a new iron and steel foundry,

(i) Maintaining the average PM concentration in the exhaust stream at or below 0.001 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.00008 gr/dscf.

(5) For each pouring station at an existing iron and steel foundry,

(i) Maintaining the average PM concentration in the exhaust stream at or below 0.010 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.0008 gr/dscf.

(6) For each pouring area or pouring station at a new iron and steel foundry,

(i) Maintaining the average PM concentration in the exhaust stream at or below 0.002 gr/dscf; or

(ii) Maintaining the average total metal HAP concentration in the exhaust stream at or below 0.0002 gr/dscf.

(7) For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, maintaining the opacity of any fugitive emissions from foundry operations discharged to the atmosphere at or below 20 percent opacity (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.

(8) For each cupola metal melting furnace at a new or existing iron and steel foundry, maintaining the average VOHAP concentration in the exhaust stream at or below 20 ppmv corrected to 10 percent oxygen.

(9) For each scrap preheater at an existing new iron and steel foundry that does not comply with the work practice standard in §63.7700(e)(1) or (2) and for each scrap preheater at a new iron and steel foundry that does not comply with the work practice standard in §63.7700(f), maintaining the average VOHAP concentration in the exhaust stream at or below 20 ppmv.

(10) For one or more automated conveyor and pallet cooling lines or automated shakeout lines that use a sand mold system at a new iron and steel foundry,

(i) Maintaining the 3-hour flow-weighted average VOHAP concentration in the exhaust stream at or below 20 ppmv;

(ii) Inspecting and maintaining each CEMS according to the requirements of §63.7741(g) and recording all information needed to document conformance with these requirements; and

(iii) Collecting and reducing monitoring data for according to the requirements of §63.7741(g) and recording all information needed to document conformance with these requirements.

(11) For each TEA cold box mold or core making line at a new or existing iron and steel foundry, maintaining a 99 percent reduction in the VOHAP concentration in the exhaust stream or maintaining the average VOHAP concentration in the exhaust stream at or below 1 ppmv.

(12) Conducting subsequent performance tests at least every 5 years for each emissions source subject to an emissions limit for PM, total metal HAP, VOHAP, or TEA in §63.7690(a) and subsequent performance tests at least every 6 months for each building or structure subject to the opacity limit in §63.7690(a)(7).

(b) You must demonstrate continuous compliance for each capture system subject to an operating limit in §63.7690(b)(1) by meeting the requirements in paragraphs (b)(1) and (2) of this section.

(1) Operating the capture system at or above the lowest values or settings established for the operating limits in your operation and maintenance plan; and

(2) Monitoring the capture system according to the requirements in §63.7740(a) and collecting, reducing, and recording the monitoring data for each of the operating limit parameters according to the applicable requirements in this subpart.

(c) For each baghouse,

(1) Inspecting and maintaining each baghouse according to the requirements of §63.7740(c)(1) through (8) and recording all information needed to document conformance with these requirements; and

(2) If the baghouse is equipped with a bag leak detection system, maintaining records of the times the bag leak detection system sounded, and for each valid alarm, the time you initiated corrective action, the corrective action taken, and the date on which corrective action was completed.

(d) For each wet scrubber that is subject to the operating limits in §63.7690(b)(2), you must demonstrate continuous compliance by:

(1) Maintaining the 3-hour average pressure drop and 3-hour average scrubber water flow rate at levels no lower than those established during the initial or subsequent performance test;

(2) Inspecting and maintaining each CPMS according to the requirements of §63.7741(c) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for pressure drop and scrubber water flow rate according to the requirements of §63.7741(f) and recording all information needed to document conformance with these requirements.

(e) For each combustion device that is subject to the operating limit in §63.7690(b)(3), you must demonstrate continuous compliance by:

(1) Maintaining the 15-minute average combustion zone temperature at a level no lower than 1,300 °F;

(2) Inspecting and maintaining each CPMS according to the requirements of §63.7741(d) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for combustion zone temperature according to the requirements of §63.7741(f) and recording all information needed to document conformance with these requirements.

(f) For each combustion device that is subject to the operating limit in §63.7690(b)(4), you must demonstrate continuous compliance by:

(1) Maintaining the 3-hour average combustion zone temperature at a level no lower than established during the initial or subsequent performance test;

(2) Inspecting and maintaining each CPMS according to the requirements of §63.7741(d) and recording all information needed to document conformance with these requirements; and

(3) Collecting and reducing monitoring data for combustion zone temperature according to the requirements of §63.7741(f) and recording all information needed to document conformance with these requirements.

(g) For each acid wet scrubber subject to the operating limits in §63.7690(b)(5), you must demonstrate continuous compliance by:

(1) Maintaining the 3-hour average scrubbing liquid flow rate at a level no lower than the level established during the initial or subsequent performance test;

(2) Maintaining the 3-hour average pH of the scrubber blowdown at a level no higher than 4.5 (if measured by a CPMS) or maintaining the pH level of the scrubber blowdown during each production shift no higher than 4.5;

(3) Inspecting and maintaining each CPMS according to the requirements of §63.7741(e) and recording all information needed to document conformance with these requirements; and

(4) Collecting and reducing monitoring data for scrubbing liquid flow rate and scrubber blowdown pH according to the requirements of §63.7741(f) and recording all information needed to document conformance with these requirements. If the pH level of the scrubber blowdown is measured by a probe and meter, you must demonstrate continuous compliance by maintaining records that document the date, time, and results of each sample taken for each production shift.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7222, Feb. 7, 2008]

§ 63.7744 How do I demonstrate continuous compliance with the work practice standards that apply to me?

(a) You must maintain records that document continuous compliance with the certification requirements in §63.7700(b) or with the procedures in your scrap selection and inspection plan required in §63.7700(c). Your records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.

(b) You must keep records of the chemical composition of all catalyst binder formulations applied in each furan warm box mold or core making line at a new or existing iron and steel foundry to demonstrate continuous compliance with the requirements in §63.7700(d).

(c) For a scrap preheater at an existing iron and steel foundry, you must operate and maintain each gas-fired preheater such that the flame directly contacts the scrap charged to demonstrate continuous compliance with the requirement §63.7700(e)(1). If you choose to meet the work practice standard in §63.7700(e)(2), you must keep records to document that the scrap preheater charges only material that is subject to and in compliance with the scrap certification requirements in §63.7700(b).

(d) For a scrap preheater at a new iron and steel foundry, you must keep records to document that each scrap preheater charges only material that is subject to and in compliance with the scrap certification requirements in §63.7700(b) to demonstrate continuous compliance with the requirement in §63.7700(f).

§ 63.7745 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?

(a) For each capture system and control device for an emissions source subject to an emissions limit in §63.7690(a), you must demonstrate continuous compliance with the operation and maintenance requirements of §63.7710 by:

(1) Making monthly inspections of capture systems and initiating corrective action according to §63.7710(b)(1) and recording all information needed to document conformance with these requirements;

(2) Performing preventative maintenance for each control device according to the preventative maintenance plan required by §63.7710(b)(3) and recording all information needed to document conformance with these requirements;

(3) Operating and maintaining each bag leak detection system according to the site-specific monitoring plan required by §63.7710(b)(4) and recording all information needed to demonstrate conformance with these requirements;

(4) Initiating and completing corrective action for a bag leak detection system alarm according to the corrective action plan required by §63.7710(b)(5) and recording all information needed to document conformance with these requirements; and

(5) Igniting gases from mold vents according to the procedures in the plan required by §63.7710(b)(6). (Any instance where you fail to follow the procedures is a deviation that must be included in your semiannual compliance report.)

(b) You must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. You must keep the plans for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of this subpart.

§ 63.7746 What other requirements must I meet to demonstrate continuous compliance?

(a) *Deviations.* You must report each instance in which you did not meet each emissions limitation in §63.7690 (including each operating limit) that applies to you. This requirement includes periods of startup, shutdown, and malfunction. You also must report each instance in which you did not meet each work practice standard in §63.7700 and each operation and maintenance requirement of §63.7710 that applies to you. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart. These deviations must be reported according to the requirements of §63.7751.

(b) *Startups, shutdowns, and malfunctions.* (1) Consistent with the requirements of §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1).

(2) The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations according to the provisions in §63.6(e).

§ 63.7747 How do I apply for alternative monitoring requirements for a continuous emissions monitoring system?

(a) You may request an alternative monitoring method to demonstrate compliance with the VOHAP emissions limits in §63.7690(a)(10) for automated pallet cooling lines or automated shakeout lines at a new iron and steel foundry according to the procedures in this section.

(b) You can request approval to use an alternative monitoring method in the notification of construction or reconstruction for new sources, or at any time.

(c) You must submit a monitoring plan that includes a description of the control technique or pollution prevention technique, a description of the continuous monitoring system or method including appropriate operating parameters that will be monitored, test results demonstrating compliance with the emissions limit, operating limit(s) (if applicable) determined according to the test results, and the frequency of measuring and recording to establish continuous compliance. If applicable, you must also include operation and maintenance requirements for the monitors.

(d) The monitoring plan is subject to approval by the Administrator. Use of the alternative monitoring method must not begin until approval is granted by the Administrator.

Notifications, Reports, and Records

§ 63.7750 What notifications must I submit and when?

(a) You must submit all of the notifications required by §§63.6(h)(4) and (5), 63.7(b) and (c); 63.8(e); 63.8(f)(4) and (6); 63.9(b) through (h) that apply to you by the specified dates.

(b) As specified in §63.9(b)(2), if you start up your iron and steel foundry before April 22, 2004, you must submit your initial notification no later than August 20, 2004.

(c) If you start up your new iron and steel foundry on or after April 22, 2004, you must submit your initial notification no later than 120 calendar days after you become subject to this subpart.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required by §63.7(b)(1).

(e) If you are required to conduct a performance test or other initial compliance demonstration, you must submit a notification of compliance status according to the requirements of §63.9(h)(2)(ii). For opacity performance tests, the notification of compliance status may be submitted with the semiannual compliance report in §63.7751(a) and (b) or the semiannual part 70 monitoring report in §63.7551(d).

(1) For each initial compliance demonstration that does not include a performance test, you must submit the notification of compliance status before the close of business on the 30th calendar day following completion of the initial compliance demonstration.

(2) For each initial compliance demonstration that does include a performance test, you must submit the notification of compliance status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to the requirement specified in §63.10(d)(2).

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7222, Feb. 7, 2008]

§ 63.7751 What reports must I submit and when?

(a) Compliance report due dates. Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements specified in paragraphs (a)(1) through (5) of this section.

- (1) The first compliance report must cover the period beginning on the compliance date that is specified for your iron and steel foundry by §63.7683 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your iron and steel foundry.
 - (2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.
 - (3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
 - (4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.
 - (5) For each iron and steel foundry that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of the dates specified in paragraphs (a)(1) through (4) of this section.
- (b) Compliance report contents. Each compliance report must include the information specified in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (8) of this section.
 - (1) Company name and address.
 - (2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - (3) Date of report and beginning and ending dates of the reporting period.
 - (4) If you had a startup, shutdown, or malfunction during the reporting period and you took action consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).
 - (5) If there were no deviations from any emissions limitations (including operating limit), work practice standards, or operation and maintenance requirements, a statement that there were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period.
 - (6) If there were no periods during which a continuous monitoring system (including a CPMS or CEMS) was out-of-control as specified by §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.
 - (7) For each deviation from an emissions limitation (including an operating limit) that occurs at an iron and steel foundry for which you are not using a continuous monitoring system (including a CPMS or CEMS) to comply with an emissions limitation or work practice standard required in this subpart, the compliance report must contain the information specified in paragraphs (b)(1) through (4) and (b)(7)(i) and (ii) of this section. This requirement includes periods of startup, shutdown, and malfunction.
 - (i) The total operating time of each emissions source during the reporting period.
 - (ii) Information on the number, duration, and cause of deviations (including unknown cause) as applicable and the corrective action taken.
 - (8) For each deviation from an emissions limitation (including an operating limit) or work practice standard occurring at an iron and steel foundry where you are using a continuous monitoring system (including a CPMS or CEMS) to comply with the emissions limitation or work practice standard in this subpart, you must include the information specified in paragraphs (b)(1) through (4) and (b)(8)(i) through (xi) of this section. This requirement includes periods of startup, shutdown, and malfunction.
 - (i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring system was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control, including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviations during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(c) Immediate startup, shutdown, and malfunction report. If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan and the source exceeds any applicable emissions limitation in §63.7690, you must submit an immediate startup, shutdown, and malfunction report according to the requirements of §63.10(d)(5)(ii).

(d) Part 70 monitoring report. If you have obtained a title V operating permit for an iron and steel foundry pursuant to 40 CFR part 70 or 40 CFR part 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an iron and steel foundry along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emissions limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an iron and steel foundry to your permitting authority.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7222, Feb. 7, 2008]

§ 63.7752 What records must I keep?

(a) You must keep the records specified in paragraphs (a)(1) through (4) of this section:

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements of §63.10(b)(2)(xiv).

(2) The records specified in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests and performance evaluations as required by §63.10(b)(2)(viii).

(4) Records of the annual quantity of each chemical binder or coating material used to coat or make molds and cores, the Material Data Safety Sheet or other documentation that provides the chemical composition of each component, and the

annual quantity of HAP used in these chemical binder or coating materials at the foundry as calculated from the recorded quantities and chemical compositions (from Material Data Safety Sheets or other documentation).

(b) You must keep the following records for each CEMS.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Request for alternatives to relative accuracy tests for CEMS as required in §63.8(f)(6)(i).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required by §§63.7743, 63.7744, and 63.7745 to show continuous compliance with each emissions limitation, work practice standard, and operation and maintenance requirement that applies to you.

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7222, Feb. 7, 2008]

§ 63.7753 In what form and for how long must I keep my records?

(a) You must keep your records in a form suitable and readily available for expeditious review, according to the requirements of §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to the requirements in §63.10(b)(1). You can keep the records for the previous 3 years offsite.

Other Requirements and Information

§ 63.7760 What parts of the General Provisions apply to me?

Table 1 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7761 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to non-opacity emissions limitations in §63.7690 and work practice standards in §63.7700 under §63.6(g).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

Definitions

§ 63.7765 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA), in §63.2, and in this section.

Automated conveyor and pallet cooling line means any dedicated conveyor line or area used for cooling molds received from pouring stations.

Automated shakeout line means any mechanical process unit designed for and dedicated to separating a casting from a mold. These mechanical processes include, but are not limited to, shaker decks, rotary separators, and high-frequency vibration units. Automated shakeout lines do not include manual processes for separating a casting from a mold, such as personnel using a hammer, chisel, pick ax, sledge hammer, or jackhammer.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, electrodynamic, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Binder chemical means a component of a system of chemicals used to bind sand together into molds, mold sections, and cores through chemical reaction as opposed to pressure.

Capture system means the collection of components used to capture gases and fumes released from one or more emissions points and then convey the captured gas stream to a control device or to the atmosphere. A capture system may include, but is not limited to, the following components as applicable to a given capture system design: duct intake devices, hoods, enclosures, ductwork, dampers, manifolds, plenums, and fans.

Cold box mold or core making line means a mold or core making line in which the formed aggregate is hardened by catalysis with a gas.

Combustion device means an afterburner, thermal incinerator, or scrap preheater.

Conveyance means the system of equipment that is designed to capture pollutants at the source, convey them through ductwork, and exhaust them using forced ventilation. A conveyance may, but does not necessarily include, control equipment designed to reduce emissions of the pollutants. Emissions that are released through windows, vents, or other general building ventilation or exhaust systems are not considered to be discharged through a conveyance.

Cooling means the process of molten metal solidification within the mold and subsequent temperature reduction prior to shakeout.

Cupola means a vertical cylindrical shaft furnace that uses coke and forms of iron and steel such as scrap and foundry returns as the primary charge components and melts the iron and steel through combustion of the coke by a forced upward flow of heated air.

Deviation means any instance in which an affected source or an owner or operator of such an affected source:

(1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emissions limitation (including operating limits), work practice standard, or operation and maintenance requirement;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any iron and steel foundry required to obtain such a permit; or

(3) Fails to meet any emissions limitation (including operating limits) or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

Electric arc furnace means a vessel in which forms of iron and steel such as scrap and foundry returns are melted through resistance heating by an electric current flowing through the arcs formed between the electrodes and the surface of the metal and also flowing through the metal between the arc paths.

Electric induction furnace means a vessel in which forms of iron and steel such as scrap and foundry returns are melted through resistance heating by an electric current that is induced in the metal by passing an alternating current through a coil surrounding the metal charge or surrounding a pool of molten metal at the bottom of the vessel.

Emissions limitation means any emissions limit or operating limit.

Exhaust stream means gases emitted from a process through a conveyance as defined in this subpart.

Free organic liquids means material that fails the paint filter test by EPA Method 9095A (incorporated by reference—see §63.14). That is, if any portion of the material passes through and drops from the filter within the 5-minute test period, the material contains free liquids.

Fresh acid solution means a sulfuric acid solution used for the control of triethylamine emissions that has a pH of 2.0 or less.

Fugitive emissions means any pollutant released to the atmosphere that is not discharged through a conveyance as defined in this subpart.

Furan warm box mold or core making line means a mold or core making line in which the binder chemical system used is that system commonly designated as a furan warm box system by the foundry industry.

Hazardous air pollutant means any substance on the list originally established in 112(b)(1) of the CAA and subsequently amended as published in the *Code of Federal Regulations*.

Iron and steel foundry means a facility or portion of a facility that melts scrap, ingot, and/or other forms of iron and/or steel and pours the resulting molten metal into molds to produce final or near final shape products for introduction into commerce. Research and development facilities and operations that only produce non-commercial castings are not included in this definition.

Metal melting furnace means a cupola, electric arc furnace, or electric induction furnace that converts scrap, foundry returns, and/or other solid forms of iron and/or steel to a liquid state. This definition does not include a holding furnace, an argon oxygen decarburization vessel, or ladle that receives molten metal from a metal melting furnace, to which metal ingots or other material may be added to adjust the metal chemistry.

Mold or core making line means the collection of equipment that is used to mix an aggregate of sand and binder chemicals, form the aggregate into final shape, and harden the formed aggregate. This definition does not include a line for making green sand molds or cores.

Mold vent means an intentional opening in a mold through which gases containing pyrolysis products of organic mold and core constituents produced by contact with or proximity to molten metal normally escape the mold during and after metal pouring.

Off blast means those periods of cupola operation when the cupola is not actively being used to produce molten metal. Off blast conditions include cupola startup when air is introduced to the cupola to preheat the sand bed and other cupola startup procedures as defined in the startup, shutdown, and malfunction plan. Off blast conditions also include idling conditions when the blast air is turned off or down to the point that the cupola does not produce additional molten metal.

On blast means those periods of cupola operation when combustion (blast) air is introduced to the cupola furnace and the furnace is capable of producing molten metal. On blast conditions are characterized by both blast air introduction and molten metal production.

Pouring area means an area, generally associated with floor and pit molding operations, in which molten metal is brought to each individual mold. Pouring areas include all pouring operations that do not meet the definition of a pouring station.

Pouring station means the fixed location to which molds are brought in a continuous or semicontinuous manner to receive molten metal, after which the molds are moved to a cooling area.

Responsible official means responsible official as defined in §63.2.

Scrap preheater means a vessel or other piece of equipment in which metal scrap that is to be used as melting furnace feed is heated to a temperature high enough to eliminate volatile impurities or other tramp materials by direct flame heating or similar means of heating. Scrap dryers, which solely remove moisture from metal scrap, are not considered to be scrap preheaters for purposes of this subpart.

Scrubber blowdown means liquor or slurry discharged from a wet scrubber that is either removed as a waste stream or processed to remove impurities or adjust its composition or pH before being returned to the scrubber.

Total metal HAP means, for the purposes of this subpart, the sum of the concentrations of antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, mercury, nickel, and selenium as measured by EPA Method 29 (40 CFR part 60, appendix A). Only the measured concentration of the listed analytes that are present at concentrations exceeding one-half the quantitation limit of the analytical method are to be used in the sum. If any of the analytes are not detected or are detected at concentrations less than one-half the quantitation limit of the analytical method, the concentration of those analytes will be assumed to be zero for the purposes of calculating the total metal HAP for this subpart.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

[69 FR 21923, Apr. 22, 2004, as amended at 70 FR 29404, May 20, 2005; 73 FR 7222, Feb. 7, 2008]

Table 1 to Subpart EEEEE of Part 63—Applicability of General Provisions to Subpart EEEEE

[As stated in §63.7760, you must meet each requirement in the following table that applies to you.]

| Citation | Subject | Applies to Subpart EEEEE? | Explanation |
|-------------------|--|----------------------------------|---|
| 63.1 | Applicability | Yes | |
| 63.2 | Definitions | Yes | |
| 63.3 | Units and abbreviations | Yes | |
| 63.4 | Prohibited activities | Yes | |
| 63.5 | Construction/reconstruction | Yes | |
| 63.6(a)–(g) | Compliance with standards and maintenance requirements | Yes | |
| 63.6(h) | Opacity and visible emissions standards | Yes | |
| 63.6(i)–(j) | Compliance extension and Presidential compliance exemption | Yes | |
| 63.7(a)(1)–(a)(2) | Applicability and performance test dates | No | Subpart EEEEE specifies applicability and performance test dates. |

| | | | |
|--|--|-----|--|
| 63.7(a)(3), (b)–(h) | Performance testing requirements | Yes | |
| 63.8(a)(1)–(a)(3), (b), (c)(1)–(c)(3), (c)(6)–(c)(8), (d), (e), (f)(1)–(f)(6), (g)(1)–(g)(4) | Monitoring requirements | Yes | Subpart EEEEE specifies requirements for alternative monitoring systems. |
| 63.8(a)(4) | Additional monitoring requirements for control devices in §63.11 | No | Subpart EEEEE does not require flares. |
| 63.8(c)(4) | Continuous monitoring system (CMS) requirements | No | Subpart EEEEE specifies requirements for operation of CMS and CEMS. |
| 63.8(c)(5) | Continuous opacity monitoring system (COMS) Minimum Procedures | No | Subpart EEEEE does not require COMS. |
| 63.8(g)(5) | Data reduction | No | Subpart EEEEE specifies data reduction requirements. |
| 63.9 | Notification requirements | Yes | Except: for opacity performance tests, Subpart EEEEE allows the notification of compliance status to be submitted with the semiannual compliance report or the semiannual part 70 monitoring report. |
| 63.10(a)–(b), (c)(1)–(6), (c)(9)–(15), (d)(1)–(2), (e)(1)–(2), (f) | Recordkeeping and reporting requirements | Yes | Additional records for CMS in §63.10(c)(1)–(6), (9)–(15) apply only to CEMS. |
| 63.10(c)(7)–(8) | Records of excess emissions and parameter monitoring exceedances for CMS | No | Subpart EEEEE specifies records requirements. |
| 63.10(d)(3) | Reporting opacity or visible emissions observations | Yes | |
| 63.10(e)(3) | Excess emissions reports | No | Subpart EEEEE specifies reporting requirements. |
| 63.10(e)(4) | Reporting COMS data | No | Subpart EEEEE data does not require COMS. |
| 63.11 | Control device requirements | No | Subpart EEEEE does not require flares. |

| | | | |
|-------------|---|-----|--|
| 63.12 | State authority and delegations | Yes | |
| 63.13–63.15 | Addresses of State air pollution control agencies and EPA regional offices. Incorporation by reference. Availability of information and confidentiality | Yes | |

[69 FR 21923, Apr. 22, 2004, as amended at 73 FR 7223, Feb. 7, 2008]

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

| | |
|---------------------|--|
| Source Name: | INTAT Precision, Inc. |
| Source Location: | 2148 State Road 3 North, Rushville, IN 46713 |
| County: | Rush |
| SIC Code: | 3321 |
| Permit Renewal No.: | T139-25610-00011 |
| Permit Reviewer: | Joe Sachse |

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from INTAT Precision, Inc. relating to the operation of a stationary gray and ductile iron foundry.

History

On December 3, 2007, INTAT Precision, Inc. submitted an application to the OAQ requesting to renew its operating permit. INTAT Precision, Inc. was issued a Part 70 Operating Permit on September 2, 2003.

Permitted Emission Units and Pollution Control Equipment

- (a) Core production facilities consisting of:

Three (3) Core Sand Bins and four (4) Isocure Cold Box Core Machines, identified as P4, P5, P6 and P7, each with a maximum capacity of processing 0.5 ton of core sand per hour, 8.0 pounds of resin per ton of core sand per hour, and 1.12 pounds of DMIPA catalyst per ton of core sand, utilizing a dust collector for particulate control, with P4, P5 and P6 constructed in 1988 and P7 constructed in 1994, and exhausting to stack No. 9.

- (b) One (1) Gray and Ductile Iron Foundry Line, constructed in 1988, identified as Plant 1, consisting of the following:

- (1) Melting and Finishing operations originally constructed in 1988 and modified in 2004, consisting of:

- (A) One (1) Indoor Charge Handling system with a maximum capacity of 20 tons of metal per hour;

Note: The Power Control system at the plant limits the total maximum throughput of the charge handling system to 20 tons of metal per hour.

- (B) One (1) Melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) electric induction furnaces, identified as P1, P2 and P3, each with a maximum throughput capacity of 10 tons of metal per hour, utilizing two (2) baghouses for particulate control, identified as DC-3A and DC-3B, exhausting to common stack No. 3;

Note: The maximum throughput of metal for the Melting system is limited to 20 tons per hour by the maximum throughput from the Charge Handling system of 20 tons of metal per hour.

- (C) One (1) Holding system consisting of the following equipment:
 - (1) Two (2) Electric Holding Furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour;
 - (2) Two (2) natural gas-fired metal treatment Ladle Heaters each with a rated capacity of 1.0 MMBtu/hr, constructed in 2004; and
 - (3) Two (2) natural gas-fired pouring Ladle Heaters, identified as P10, each with a rated capacity of 0.4 MMBtu/hr, constructed in 2004.
 - (D) One (1) Inoculation system consisting of two (2) metal treatment ladles replaced in 2004, identified as P11, each with a maximum throughput capacity of 10 tons of metal per hour, controlled by baghouses DC-3A and DC-3B for particulate control, and exhausting to a common stack No. 3; and
 - (E) One (1) Grinding process, identified as Grinders 3 and 4 constructed in 1988, and Grinders 5 through 9 constructed in 2009, with a total capacity of 12 tons of metal per hour, controlled by dust collectors exhausting inside the building.
- (2) Casting Line 2, with a maximum capacity of 15 tons of metal per hour and 70 tons of sand per hour, constructed in 2004, consisting of the following equipment:
 - (A) One (1) Sand system consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, with a total maximum capacity of 70 tons of sand per hour, controlled by baghouse BH6400, and exhausting to stack No. 6400;
 - (B) One (1) Pouring station, identified as P13B, with a maximum capacity of 15 tons of metal poured per hour, controlled by baghouse DC-3B, and exhausting to stack No. 3;
 - (C) One (1) Cooling line, identified as P14B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (D) One (1) Shakeout unit, identified as P16B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200;
 - (E) One (1) Bad Heat Shakeout unit controlled by baghouse DC-5, and exhausting to stack No. 5;
 - (F) Casting Conveyors and Desprue operations, identified as P17B, P18B, P19B, P20B, P21B and P22B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouses DC-7 and DC-8B exhausting inside the building, and baghouse BH6200 exhausting to stack No. 6200; and
 - (G) One (1) Plant 1, Line 2 Shot Blast process, consisting of three (3) Shot Blast units, identified as P40, P41 and P42, each with a maximum capacity of 5.3 tons of metal per hour and a total maximum capacity of 9.0 tons of metal per hour, controlled by baghouse DC-8B, and exhausting inside the building.
 - (3) One (1) Shot Blast unit, identified as Wheelabrator MeshBelt Blast, with a maximum capacity of 11.0 tons of metal per hour, controlled by baghouse DC-13, and exhausting internally.

- (c) One (1) Ductile Iron Foundry Line, constructed in 1997, identified as Plant 2, consisting of the following:
- (1) One (1) Indoor Charge Handling system, identified as 1000A, with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) Melting, Inoculation and Pouring system, identified as 1110, 1150 and 2000, respectively, with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010, consisting of the following equipment:
 - (A) Two (2) Electric Induction Furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (B) One (1) Electric Holding Furnace, uncontrolled; and
 - (C) Two (2) natural gas-fired Ladle Heaters, identified as 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;

Note: The maximum throughput of metal for the Melting and Pouring system is limited to 10 tons of metal per hour by the maximum throughput from the Charge Handling system of 10 tons of metal per hour and the Power Control systems at the plant.
 - (3) One (1) Mold machine, identified as 2010, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010;
 - (4) One (1) Casting Conveyor system and one (1) Cooling Conveyor system, identified as 2015 and 2020, respectively, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6020 and BH6030 for particulate control, and exhausting to stack No. 6020, 6030A and 6030B;
 - (5) One (1) Casting Shakeout system, identified as 3010, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (6) One (1) Casting Shakeout system, identified as 3010, permitted in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6030 for particulate control, and exhausting to stack No. 6030A and 6030B;
 - (7) One (1) Sand and Waste Sand Handling system, identified as 4000, 4140 and 5000, with a maximum capacity of 70 tons of sand per hour, utilizing baghouse BH6020 and BH6040 for particulate control, and exhausting to stack No. 6020 and 6040;
 - (8) Two (2) Shot Blast units, identified as Pre-Blast 3055 and Final Blast 3090, each with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6030, and exhausting to stack No. 6030A and 6030B; and
 - (9) One (1) Finishing operation consisting of trim presses, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, uncontrolled.

Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour:
 - (1) Two (2) natural gas-fired boilers, identified as P40 and P41, with a maximum heat capacity of 0.9 and 1.2 million Btu per hour, respectively; and
 - (2) One (1) natural gas-fired heater to dry scrap metal in Plant 1, rated at 1.0 MMBtu per hour.
- (b) Combustion source flame safety purging on startup;
- (c) Vessels storing the following: lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (d) Refractory storage not requiring air pollution control equipment;
- (e) Application of oils, greases, lubricants, and nonvolatile materials as temporary protective coatings.
- (f) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6: maintenance parts cleaner using mineral spirits solvent that is 100% recycled, with a maximum throughput of 120 gallons per 12 months; [326 IAC 8-3-2]
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access;
- (i) 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 three one-hundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4000) actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations, including the following specifically regulated grinders:
 - (1) Six (6) Bench Grinders, identified as 8000, with a maximum capacity of 5.5 tons of metal per hour, controlled by fabric filters FFA, FFB, FFC, FFD and FFE; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter, all exhausting inside the building. [326 IAC 6-3-2]
- (j) Filter or coalescer media changeout;
- (k) Other activities or categories not previously identified:
 - (1) Six (6) scrap bays, identified as P47 through P52, each with PM emissions of approximately 0.16 pound per hour; [326 IAC 6-3-2]

- (2) Two (2) Sand Towers for the gray and ductile iron foundry line, identified as P55 and P56, constructed in 1988 (emissions are included in sand handling calculations);
 - (3) Maintenance Shop operations, identified as P58 and P59, each with PM emissions of approximately 0.1 pounds per hour; [326 IAC 6-3-2]
 - (4) Two (2) Collector Penthouses, identified as P53 and P54, each with PM emissions of approximately 0.16 pounds per hour; [326 IAC 6-3-2]
 - (5) One (1) Material Separator (baghouse fallout collection), with PM emissions approximately 0.6 pounds per hour; [326 IAC 6-3-2]
 - (6) One (1) scrap yard; and
 - (7) Two (2) fixed roof resin storage tanks, each with a maximum storage capacity of 2,000 gallons.
- (l) One (1) Sand Tower for the ductile iron foundry line, constructed in 1997, which houses the sand silos, bond silos, sand mullers, and sand conveyors used with the sand handling operations; and
- (m) Unvented trim press operations for pinching or cleaving protruding metal from castings with no emissions.

Existing Approvals

Since the issuance of the Part 70 Operating Permit No. T139-7531-00011 on September 2, 2003, the source has constructed or has been operating under the following approvals as well:

- (a) Significant Permit Modification No. T139-27169-00011 issued on May 4, 2009;
- (b) Significant Permit Modification No. T139-22744-00011 issued on December 20, 2007;
- (c) Significant Permit Modification No. T139-21886-00011 issued on March 17, 2006;
- (d) Administrative Amendment No. 139-19865-00011 issued on March 4, 2005; and
- (e) Significant Permit Modification No. T139-18320-00011 issued on April 26, 2004.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Emission Calculations

The calculations from the previous permits were sufficient and used for this renewal analysis.

County Attainment Status

The source is located in Rush County.

| Pollutant | Designation |
|------------------|---|
| SO ₂ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹ |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Not designated. |

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

- (a) **Ozone Standards**
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 ozone. Rush County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Rush County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions, and the effective date of these rules was July 15th, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**
Rush County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, PM₁₀, NO₂, and Pb. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Since this source is classified as a gray and ductile iron foundry, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (e) **Fugitive Emissions**
Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

| Pollutant | tons/year |
|------------------|------------------|
| PM | greater than 100 |
| PM ₁₀ | greater than 100 |
| SO ₂ | less than 100 |
| VOC | greater than 100 |
| CO | greater than 100 |
| NO _x | less than 100 |

| HAPs | tons/year |
|-------------|-----------------|
| single HAPs | greater than 10 |
| Total HAPs | greater than 25 |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀, VOC and CO is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are counted toward the determination of Part 70 applicability.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| Process/facility | Potential to Emit (tons/year) | | | | | | |
|--|-------------------------------|------------------|-----------------|-------|--------|-----------------|-------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | HAPs |
| Plant 1 (constructed 1988, modified 2001/2004) | | | | | | | |
| Isocure Cold Box Core Machines (P4, P5, P6, P7) | 3.58 | 3.58 | -- | 23.83 | -- | -- | 3.99 |
| Charge Handling (P1, P2, P3) | 26.19 | 15.71 | -- | -- | -- | -- | 1.00 |
| Melting System (P8) | 8.21 | 8.21 | -- | -- | -- | -- | 0.04 |
| Two (2) Ladle Heaters (P10) | 0.11 | 0.46 | 0.04 | 0.33 | 5.08 | 6.04 | 0.11 |
| Inoculation System (P11) | 8.21 | 8.21 | -- | 0.09 | -- | -- | 0.02 |
| Pouring Station (P13B), Cooling Line (P14B), Shakeout Unit (P16B), and Bad Heat Shakeout | 23.17 | 76.77 | 1.31 | 51.42 | 99.78 | 1.89 | 18.74 |
| Casting Conveyors & Desprue Ops (P17B - P22B) | 5.19 | 5.19 | -- | -- | -- | -- | -- |
| Shot Blast Process (P40 – P42) | 8.63 | 8.63 | -- | -- | -- | -- | 0.28 |
| Grinding Process (Grinders 3-9) | 8.63 | 8.63 | -- | -- | -- | -- | 0.28 |
| Sand System (P32B - P39B) | 9.75 | 9.75 | -- | -- | -- | -- | -- |
| Wheelabrator MeshBelt Blast | 24.90 | 14.90 | -- | -- | -- | -- | 0.11 |
| Insignificant Activities (P40, P41, P47 - P52, P53, P54, P58, P59) | 6.50 | 6.55 | 0.01 | 0.05 | 0.77 | 0.92 | 0.02 |
| Subtotal | 133.07 | 193.59 | 1.36 | 80.52 | 105.63 | 8.85 | 24.59 |

| Process/facility | Potential to Emit (tons/year) | | | | | | |
|--|-------------------------------|------------------|-----------------|--------|--------|-----------------|-------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | HAPs |
| Plant 1 (constructed 1997, modified 2004) | | | | | | | |
| Pre-Blast (3055) | 17.31 | 17.31 | -- | -- | -- | -- | -- |
| Final Blast (3090) | 17.31 | 17.31 | -- | -- | -- | -- | -- |
| Charge Handling (1000A) | 21.00 | 21.00 | -- | -- | -- | -- | 0.80 |
| Melting, Inoculation and Pouring (1110, 1150, 2000) | 17.43 | 17.53 | 0.38 | 2.70 | 1.47 | 1.94 | 1.52 |
| Casting Conveyor & Cooling Conveyor System (2015, 2020) | 17.78 | 17.78 | -- | -- | -- | -- | 0.67 |
| Casting Shakeout System (3010) | 17.78 | 17.78 | -- | 22.30 | -- | -- | 0.36 |
| Sand & Waste Sand Handling System (4000,4140, 5000) | 25.50 | 25.50 | -- | -- | -- | -- | -- |
| Finishing Operation (8000) | 0.45 | 0.45 | -- | -- | -- | -- | 0.02 |
| Subtotal | 134.56 | 134.66 | 0.38 | 25.00 | 1.47 | 1.94 | 3.37 |
| Total Emissions | 267.63 | 301.12 | 1.74 | 105.52 | 105.63 | 9.04 | 27.93 |

- (a) This existing stationary source is major for PSD because the emissions of at least one regulated pollutant are greater than one hundred (>100) tons per year, and it is one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions
Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

Compliance Assurance Monitoring (CAM)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to existing emission units that involve a pollutant-specific emission unit and meet the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

| Emission Unit | Control Device Used | Emission Limitation (Y/N) | Uncontrolled PTE (tons/year) | Controlled PTE (tons/year) | Major Source Threshold (tons/year) | CAM Applicable (Y/N) | Large Unit (Y/N) |
|---|---------------------|---------------------------|------------------------------|----------------------------|------------------------------------|----------------------|------------------|
| Isocure Cold Box Core Machines (P4-P7) PM ₁₀ | Y | N | 4.73 | 3.58 | 100 | N | N |
| Plant 1 | | | | | | | |
| Melting (P8) & Inoculation (P11) PM ₁₀ | Y | Y | 75.34 | 16.47 | 100 | N | N |
| Pouring (P13B) PM | Y | Y | 367.92 | 11.03 | 100 | N ¹ | N |
| Pouring (P13B) PM ₁₀ | Y | Y | 180.46 | 11.03 | 100 | Y | N |
| Cooling (P14B) PM | Y | Y | 122.64 | 7.82 | 100 | Y | N |
| Cooling (P14B) PM ₁₀ | Y | Y | 122.64 | 7.82 | 100 | Y | N |
| Shakeout (P16B) PM | Y | Y | 280.32 | 11.10 | 100 | Y | N |
| Shakeout (P16B) PM ₁₀ | Y | Y | 196.22 | 11.10 | 100 | Y | N |
| Casting Conveyors & Desprue (P17B-P22) PM | Y | Y | 1,489.20 | 17.31 | 100 | Y | N |
| Casting Conveyors & Desprue (P17B-P22) PM ₁₀ | Y | Y | 148.92 | 17.31 | 100 | Y | N |
| Sand System (P32B-P37B, P39B) PM | Y | Y | 2,365.20 | 16.47 | 100 | Y | N |
| Sand System (P32B-P37B, P39B) PM ₁₀ | Y | Y | 354.78 | 16.47 | 100 | Y | N |
| Grinding (Grinders 3-9) PM | Y | Y | 1,489.20 | 17.31 | 100 | Y | N |
| Grinding (Grinders 3-9) PM ₁₀ | Y | Y | 148.92 | 17.31 | 100 | Y | N |
| Shot Blasters (P40-P42) PM | Y | Y | 1,489.20 | 17.31 | 100 | Y | N |
| Shot Blasters (P40-P42) PM ₁₀ | Y | Y | 148.92 | 17.31 | 100 | Y | N |

| Plant 2 | | | | | | | |
|---|---|---|--------|-------|-----|----------------|---|
| Melting, Inoculation & Pouring System (1110,1150,2000) PM | Y | Y | 223.38 | 21.77 | 100 | N ¹ | N |
| Melting, Inoculation & Pouring System (1110,1150,2000) PM ₁₀ | Y | Y | 127.9 | 21.77 | 100 | Y | N |
| Casting Shakeout (3010) PM ₁₀ | Y | Y | 98.11 | 11.10 | 100 | N | N |
| Pre-Blast (3055) PM ₁₀ | Y | Y | 74.46 | 17.31 | 100 | N | N |
| Final Blast (3090) PM ₁₀ | Y | Y | 74.46 | 17.31 | 100 | N | N |
| Sand Handling (4000) PM ₁₀ | Y | Y | 165.56 | 22.90 | 100 | Y | N |
| Finishing (8000) PM ₁₀ | Y | Y | 40.95 | 0.45 | 100 | N | N |

⁽¹⁾ The Melting (P8), Inoculation (P11), Pouring (P13B), and the Melting, Inoculation & Pouring System (1110, 1150, & 2000) are exempt from the CAM requirements for PM because they are subject to an emission standard or limitation proposed by the U.S. EPA after November 15, 1990 (40 CFR 63, Subpart EEEEE). These units are subject to CAM for PM₁₀.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the Cooling (P14B), Shakeout (P16B), Casting Conveyors & Desprue (P17B-P22), Sand System (P32B-P37B, P39B), Grinding (Grinders 3-9), Shot Blasters (P40-P42), and Sand Handling (4000) Operations for PM/PM₁₀. A CAM plan has been submitted and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

The requirements of 40 CFR Part 64, CAM are not applicable to the emission units that are not listed above (Charge Handling (P1, P2, P3, & 1000A) and the Electric Holding Furnace (P9)) because they do not have a control device.

New Source Performance Standards (NSPS)

- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) This source is subject to the National Emission Standards for Iron and Steel Foundries (40 CFR 63, Subpart EEEEE), which is incorporated by reference as 326 IAC 20-92. The units subject to this rule include the following:
 - (1) One (1) Gray and Ductile Iron Foundry Line, constructed in 1988, identified as Plant 1, consisting of the following:
 - (A) Melting and Finishing operations originally constructed in 1988 and modified in 2004, consisting of:
 - (1) One (1) Melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) electric induction furnaces, identified as P1, P2 and P3, each

with a maximum throughput capacity of 10 tons of metal per hour, utilizing two (2) baghouses for particulate control, identified as DC-3A and DC-3B, exhausting to common stack No. 3;

- (2) One (1) Holding system consisting of the following equipment:
 - (1) Two (2) Electric Holding Furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour;
 - (2) Two (2) natural gas-fired metal treatment Ladle Heaters each with a rated capacity of 1.0 MMBtu/hr, constructed in 2004; and
 - (3) Two (2) natural gas-fired pouring Ladle Heaters, identified as P10, each with a rated capacity of 0.4 MMBtu/hr, constructed in 2004.

- (2) Plant 1, Casting Line 2, with a maximum capacity of 15 tons of metal per hour and 70 tons of sand per hour, constructed in 2004, consisting of the following equipment:
 - (A) One (1) Pouring station, identified as P13B, with a maximum capacity of 15 tons of metal poured per hour, controlled by baghouse DC-3B, and exhausting to stack No. 3.
 - (B) One (1) Cooling line, identified as P14B, with a maximum capacity of 15 tons of metal per hour, controlled by baghouse BH6200, and exhausting to stack No. 6200.

- (3) Plant 2, Ductile Iron Foundry Line, constructed in 1997, consisting of the following:
 - (A) One (1) Melting, Inoculation and Pouring system, identified as 1110, 1150 and 2000, respectively, with a maximum capacity of 10 tons of metal per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010, consisting of the following equipment:
 - (1) Two (2) Electric Induction Furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) Electric Holding Furnace, uncontrolled); and
 - (3) Two (2) natural gas-fired Ladle Heaters, identified as 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;
 - Note: The maximum throughput of metal for the Melting and Pouring system is limited to 10 tons of metal per hour by the maximum throughput from the Charge Handling system of 10 tons of metal per hour and the Power Control systems at the plant.
 - (B) One (1) Mold machine, identified as 2010, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6010 for particulate control, exhausting to stack No. 6010; and

- (C) One (1) Casting Conveyor system and one (1) Cooling Conveyor system, identified as 2015 and 2020, respectively, modified in 2009, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing baghouse BH6020 and BH6030 for particulate control, and exhausting to stack No. 6020, 6030A and 6030B.

This source is subject to the following portions of Subpart EEEEE.

- (1) 40 CFR 63.7680
- (2) 40 CFR 63.7681
- (3) 40 CFR 63.7682
- (4) 40 CFR 63.7683(a)
- (5) 40 CFR 63.7683(b)
- (6) 40 CFR 63.7683(f)
- (7) 40 CFR 63.7690(a)(1)(i)
- (8) 40 CFR 63.7690(a)(5)(i)
- (9) 40 CFR 63.7690(a)(7)
- (10) 40 CFR 63.7700(a)
- (11) 40 CFR 63.7700(b)
- (12) 40 CFR 63.7710(a)
- (13) 40 CFR 63.7710(b)(1)
- (14) 40 CFR 63.7710(b)(3)
- (15) 40 CFR 63.7710(b)(4)
- (16) 40 CFR 63.7710(b)(5)
- (17) 40 CFR 63.7710(b)(6)
- (18) 40 CFR 63.7720
- (19) 40 CFR 63.7730(a)
- (20) 40 CFR 63.7730(b)
- (21) 40 CFR 63.7731
- (22) 40 CFR 63.7732(a)
- (23) 40 CFR 63.7732(b)(1)
- (24) 40 CFR 63.7732(b)(2)
- (25) 40 CFR 63.7732(b)(4)
- (26) 40 CFR 63.7732(c)(1)
- (27) 40 CFR 63.7732(c)(2)
- (28) 40 CFR 63.7732(c)(4)
- (29) 40 CFR 63.7732(d)
- (30) 40 CFR 63.7732(h)
- (31) 40 CFR 63.7733(a)
- (32) 40 CFR 63.7733(e)
- (33) 40 CFR 63.7733(f)
- (34) 40 CFR 63.7734(a)(1)(i)
- (35) 40 CFR 63.7734(a)(5)(i)
- (36) 40 CFR 63.7734(a)(7)
- (37) 40 CFR 63.7734(b)(1)
- (38) 40 CFR 63.7735(a)
- (39) 40 CFR 63.7736(c)
- (40) 40 CFR 63.7736(d)
- (41) 40 CFR 63.7740(b)
- (42) 40 CFR 63.7741(b)
- (43) 40 CFR 63.7742
- (44) 40 CFR 63.7743(a)(1)(i)
- (45) 40 CFR 63.7743(a)(5)(i)
- (46) 40 CFR 63.7743(a)(7)
- (47) 40 CFR 63.7743(a)(12)
- (48) 40 CFR 63.7743(c)
- (49) 40 CFR 63.7744(a)

- (1) The PM and PM₁₀ emissions included in the table for the Pre-Blast and Final Blast units installed in 1997 also include emissions from the Casting Conveyor & Cooling Conveyor System (2015 and 2020) and the Casting Shakeout System (3010) which all exhaust to the same baghouse (BH6030) and represent the maximum allowable PM and PM₁₀ emissions to render the requirements of 326 IAC 2-2 (PSD) not applicable to the units installed in 1997.
- (2) PM and PM₁₀ emissions included in the table for Inoculation (1150) also include emissions from Melting (1110) and Pouring (ID 2000) which vent to the same baghouse (BH6010) and represent maximum allowable PM and PM₁₀ emissions to render 326 IAC 2-2 (PSD) not applicable to the units installed in 1997.
- (3) PM and PM₁₀ emissions from Charge Handling (1000A), Electric Holding Furnace, Sand & Waste Sand Handling System (4000, 4140, and 5000), and Finishing (8000) represent maximum allowable emissions to render 326 IAC 2-2 (PSD) not applicable to the units installed in 1997.
- (4) Based on the potential to emit of VOCs.
- (5) CO emissions from the Pouring (2000), Casting Conveyor & Cooling Conveyor System (2015 and 2020) and Casting Shakeout System (3010) are limited to 3.2 pounds per ton of metal throughput so that at a limited metal throughput of 61,500 tons per twelve (12) consecutive month period, CO emissions from the modification in 1997 are limited to less than 100 tons per year to render the requirements of 326 IAC 2-2 (PSD) not applicable. The proposed CO emission limit for the Pouring, Cooling and Shakeout Processes at Plant 2 is based on previous CO stack testing performed on these operations in September 2005 which showed a combined CO emission rate of 2.3 pounds per ton of metal from the Pouring, Cooling and Shakeout Processes. The emission limit includes a safety factor to ensure compliance with this limit.

This modification to an existing minor stationary source in 1997 was not major because the emissions increases were less than the PSD threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements did not apply. The source became a major PSD source after the modification in 1997.

The Pre-Blast and Final Blast units installed in 1997 are included in the PM/ PM₁₀ PSD minor limits for units installed in 1997. The limits are as follows:

| Process | Material | Control Device ID | PM/PM ₁₀ Emission Limitation (lb/ton material) | Throughput Limit (tons per 12 consecutive month period) |
|---|-----------|----------------------------------|---|---|
| Melting, Pouring and Inoculation (1110, 2000, and 1150) | Metal | baghouse BH6010 | 0.50 | 61,500 (metal) |
| Electric Holding Furnace | Metal | NA | 0.10 | 61,500 (metal) |
| Casting Shakeout (3010) | Metal | baghouse BH6030 | 1.45 (for baghouse BH6030) | 61,500 (metal) |
| Pre-Blast (3055) and Final Blast (3090) | Metal | baghouse BH6030 | | |
| Mold Machine/Casting Conveyor & Cooling Conveyor (2010, 2015, and 2020) | Metal | baghouse BH6020, baghouse BH6030 | | |
| Sand & Waste Sand Handling System (4000, 4140, and 5000) | Mold Sand | baghouse BH6020, baghouse BH6040 | 0.11 (for baghouse BH6020) | 430,500 (sand) ⁽¹⁾ |
| | | | 0.05 (for baghouse BH6040) | |
| Finishing (8000) | Metal | FFA - FFE | 0.06 | 48,180 (metal) |

⁽¹⁾ Throughput limit is a combined limit for the Sand & Waste Sand Handling System, which is controlled by two (2) baghouses, identified as 6020 and 6040.

2001 Modification

| Process/Emission Unit | Potential to Emit (tons/year) | | | | | | |
|---|-------------------------------|------------------|-----------------|------|------|-----------------|------------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | Total HAPs |
| Wheelabrator MeshBelt Blast 2001 ⁽¹⁾ | 24.9 | 14.9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| PSD Significant Levels | 25 | 15 | 40 | 40 | 100 | 40 | N/A |

⁽¹⁾ PM and PM₁₀ emissions from the Wheelabrator MeshBelt Blast unit will be limited to less than 25 and 15 tons per year, respectively, to render the requirements of 326 IAC 2-2 (PSD) not applicable to the modification to a major PSD source in 2001.

The Wheelabrator MeshBelt Blast unit is the only unit installed in 2001. Since the unrestricted potential to emit of PM and PM₁₀ from this unit are greater than 25 and 15 tons per year, respectively, but controlled emissions are less than these thresholds, the potential to emit from the Wheelabrator MeshBelt Blast unit will be limited as follows:

- (a) The PM emission rate from the one (1) Wheelabrator MeshBelt Blast unit, controlled by baghouse DC-13, shall not exceed 5.7 pounds per hour.
- (b) The PM₁₀ emission rate from the one (1) Wheelabrator MeshBelt Blast unit shall not exceed 3.40 pounds per hour.

This modification to an existing major stationary source in 2001 was not major because the emissions increase was less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements did not apply.

Compliance with these emission limits will ensure that the potential to emit from the modification to the existing major source in 2001 is less than twenty-five (25) tons of PM per year and less than fifteen (15) tons of PM₁₀ per year and therefore will render the requirements of 326 IAC 2-2 not applicable.

2004 Modification

| Process/Emission Unit | Potential to Emit (tons/year) | | | | | | |
|---|-------------------------------|----------------------|-----------------|----------------------|----------------------|-----------------|----------------------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | Total HAPs |
| Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout | 23.17 ⁽¹⁾ | 76.77 ⁽²⁾ | 1.31 | 51.42 ⁽³⁾ | 99.78 ⁽⁴⁾ | 1.89 | 18.74 ⁽⁵⁾ |
| PSD Significant Levels | 25 | 15 | 40 | 40 | 100 | 40 | N/A |

This modification to an existing major stationary source in 2004 was not major for PM, SO₂, VOC, CO or NO_x emissions because the emissions increase was less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements did not apply to these pollutants. However, stack test results from a test performed on the Pouring, Cooling and Shakeout Operations in September 2005, indicated that the existing 0.8 pound VOC per ton metal throughput limit was exceeded and that VOC emissions also exceeded the PSD significant level of 40 tons per year, making them now subject to 326 IAC 2-2 (PSD).

- ⁽¹⁾ PM emissions from Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout also include Melting (P8), Inoculation (P11), Conveying (P17B, P18B, P19B, P20B, P21B, P22B), Shotblasting (P40, 41, & 42), and Sand Handling (P32B - P37B & P39B) Operations of Plant 1, Line 2 and represent allowable emissions to render 326 IAC 2-2 (PSD) not applicable for PM.
- ⁽²⁾ PM₁₀ emissions from Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout also include Melting (P8), Inoculation (P11), Conveying (P17B, P18B, P19B, P20B, P21B, P22B),

Shotblasting (P40, 41, & 42), and Sand Handling (P32B - P37B & P39B) Operations of Plant 1, Line 2 and represent allowable emissions pursuant to 326 IAC 2-2-3 (PSD BACT).

The modification in 2004 was a major modification under 326 IAC 2-2 for PM₁₀ emissions. The following emission limits were determined to be BACT under 326 IAC 2-2 (PSD) as permitted under PSD First Significant Source Modification No. 139-17898-00011, issued on April 6, 2004, and PSD First Significant Permit Modification No. 139-18320-00011, issued on April 26, 2004:

Pursuant to 326 IAC 2-2-3, the Permittee shall comply with the following BACT required emission limits for PM₁₀ from the Plant 1, Casting Line 2 processes (PM₁₀ limits include both filterable and condensable).

| Stack No. | Process | Collector Air Flow Rate (cu. ft /min) | Filterable PM ₁₀ Emission Limitation | | Total PM ₁₀ Emission Limitation (lb/ton metal) |
|-------------------------|---|---------------------------------------|---|---------|---|
| | | | (gr/dscf) | (lb/hr) | |
| 3A | Melting (P8) & Inoculation (P11) | 66,225 | 0.003 | 1.7 | 0.633 lb/ton metal |
| 3B | Pouring (P13B), Melting (P8) & Inoculation (P11) | 66,225 | 0.003 | 1.7 | 0.633 lb/ton metal |
| 1-6400 | Sand Handling (P32B-P37B & P39B) | 44,000 | 0.003 | 1.13 | 0.02 lb/ton sand |
| 1-6200 | Casting Cooling (P14B), Shakeout (P16B), Casting Conveying & Cooling Conveying (P17B, P18B, P19B, P20B, P21B, P22B) | 111,000 | 0.003 | 2.85 | 1.045 lb/ton metal |
| DC-8B (exhausts inside) | Shotblasting (P40, P41, & P42) & Casting Conveying & Cooling Conveying (P17B, P18B, P19B, P20B, P21B, P22B) | 40,000 | 0.003 | 1.03 | 0.085 lb/ton metal |
| DC-7 (exhausts inside) | Casting Conveying & Cooling Conveying (P17B, P18B, P19B, P20B, P21B, P22B) | 21,300 | 0.003 | 0.55 | 0.085 lb/ton metal |
| 5 | Bad Heat Shakeout | 17,400 | 0.003 | 0.45 | 0.03 lb/ton metal |

⁽³⁾ In the 2004 modification, INTAT proposed a VOC limit of 0.8 pounds of VOC per ton of metal from the Pouring, Cooling, Shakeout and Bad Heat Shakeout to limit VOC emissions to less than 25 tons per year to render 326 IAC 8-1-6 (BACT) not applicable. However, testing was conducted by INTAT in September 2005 and the tested emission rate was higher than the 0.8 pounds of VOC per ton of metal limit. Therefore, since the source was not able to comply with the VOC limit, the potential to emit of VOCs from the Pouring, Cooling, Shakeout and Bad Heat Shakeout are greater than 40 tons per year and the requirements of both 326 IAC 2-2 (PSD) and 326 IAC 8-1-6 apply. The following has been determined to be BACT for the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout processes:

- (a) The use of Material Substitution and Lower-Emitting Processes/Practices to limit VOC emissions;
- (b) The installed Advanced Oxidation (AO) system shall be used with a minimum VOC reduction efficiency of 20%; and
- (c) A combined VOC emission limit of 1.3 pounds per ton of metal throughput to the Pouring, Cooling and Shakeout Operations (P13B, P14B, and P16B) and Bad Heat Shakeout operation.
- (d) The combined throughput of metal to the Pouring, Cooling and Shakeout operations (P13B, P14B, and P16B) and Bad Heat Shakeout operation shall not exceed 79,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

- (4) CO emissions represent maximum allowable emissions from Pouring, Cooling and Shakeout such that when combined with the potential to emit of other units installed in 2004, the CO emissions are limited to less than 100 tons per year to render 326 IAC 2-2 (PSD) not applicable. Since the unrestricted potential to emit of CO from the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout operations are greater than 100 tons per year, but actual CO emissions are less than 100 tons per year, a limit for CO emissions from the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout operations will be added to the Part 70 permit to render the requirements of 326 IAC 2-2 (PSD) not applicable to the units installed in 2004 for CO emissions.

The proposed CO emission limit for the Pouring, Cooling and Shakeout processes at Plant 2 is based on previous CO stack testing performed on these operations in September 2005 which showed a combined CO emission rate of 2.3 pounds per ton of metal from the Pouring, Cooling and Shakeout processes. The emission limit includes a safety factor to ensure compliance with this limit. The limit is as follows:

- (a) The combined CO emissions from the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout operations shall not exceed 2.5 pounds of CO per ton of metal throughput.
- (b) The combined throughput of metal to each of the Pouring (P13B), Cooling (P14B), Shakeout (P16B) and Bad Heat Shakeout operations shall not exceed 79,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The metal throughput limit and the CO emission limits yield CO emissions less than 100 tons per year from the units installed in 2004. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply for CO.

- (5) Total HAP emissions from Pouring, Cooling, and Shakeout include both metallic and organic HAP emissions and are taken from PSD First Significant Source Modification No. 139-17898-00011, issued on April 6, 2004, and PSD First Significant Permit Modification No. 139-18320-00011, issued on April 26, 2004.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of the core production operations and the Plant 1 and Plant 2 foundry operations will emit greater than 10 tons per year of a single HAP and 25 tons per year of a combination of HAPs; however, pursuant to 326 IAC 2-4.1-1(b)(2), because the core production operations and the Plant 1 and Plant 2 foundry operations are specifically regulated by NESHAP 40 CFR 63, Subpart EEEEE, which was issued pursuant to Section 112(d) of the CAA, the core production operations and the Plant 1 and Plant 2 foundry operations are exempt from the requirements of 326 2-4.1. In addition, the core production operations were constructed prior to the rule applicability date of July 27, 1997.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted by July 1 beginning in 2005 and every 3 years after. Therefore, the next emission statement for this source must be submitted by July 1, 2011. 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 Exemptions), opacity shall meet the following, unless otherwise stated in the 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.

State Rule Applicability – Individual Facilities

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

All of the processes that emit particulate matter are subject to the requirements of this rule. Pursuant to this rule the particulate (PM) emissions from the facilities shall be limited by the following:

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

| Process/facility | Control Device ID | Maximum Process Weight Rate (tons/hr) | Allowable PM Emissions (lbs/hr) |
|---|--------------------------|---------------------------------------|---------------------------------|
| Isocure Cold Box Core Machines (P4-P7) | dust collector | 0.5 | 2.58 |
| Charge Handling (P1, P2, P3) | none | 20.0 | 30.51 |
| Melting (P8) & Inoculation (P11) | baghouses DC-3A & DC-3B | 20.0 | 30.51 |
| Sand System (P32B - P37B & P39B) | baghouse BH6400 | 70.0 | 47.76 |
| Pouring (P13B)* | baghouse DC-3B | 85.0 | 49.67 |
| Cooling (P14B)* | baghouse BH6200 | 85.0 | 49.67 |
| Shakeout (P16B)* | baghouse BH6200 | 85.0 | 49.67 |
| Bad Heat Shakeout* | baghouse DC-5 | 85.0 | 49.67 |
| Casting Conveyors & Desprue (P17B – P22B) | baghouses DC-7, DC-8B, & | 15.0 | 25.16 |

| Process/facility | Control Device ID | Maximum Process Weight Rate (tons/hr) | Allowable PM Emissions (lbs/hr) |
|--|----------------------------------|---------------------------------------|---------------------------------|
| | BH6200 | | |
| Shot blasters (P40, P41 & P42) | baghouse DC-8B | 9.0 | 17.87 |
| Grinders 3-9 | dust collectors | 12.0 | 21.67 |
| Wheelabrator MeshBelt Blast | baghouse DC-13 | 11.0 | 20.44 |
| Charge Handling (1000A) | NA | 10.0 | 19.18 |
| Melting, Inoculation, and Pouring (1110, 1150, and 2000) | baghouse BH6010 | 10.0 | 19.18 |
| Electric Holding Furnace | none | 10.0 | 19.18 |
| Casting Conveyor & Cooling Conveyor (2015 and 2020)* | baghouse BH6020, baghouse BH6030 | 80.0 | 49.06 |
| Casting Shakeout (3010)* | baghouse BH6030 | 80.0 | 49.06 |
| Pre-Blast (3055) | baghouse BH6030 | 10.0 | 19.18 |
| Final Blast (3090) | baghouse BH6030 | 10.0 | 19.18 |
| Sand & Waste Sand Handling (4000, 4140, and 5000) | baghouse BH6020, baghouse BH6040 | 70.0 | 47.77 |
| Finishing (8000) | fabric filters FFA - FFE | 5.50 | 12.85 |

* Includes metal and sand throughput.

The baghouses shall be in operation at all times the corresponding facilities are in operation, in order to comply with this limit. Based on calculations, the processes are in compliance with these requirements.

For insignificant particulate-emitting facilities not listed in the table above, the allowable PM emission rate from each process shall not exceed allowable PM emission rate based on the appropriate 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

326 IAC 8-1-6 (General Volatile Organic Compound Reduction Requirements)

- (1) As stated previously, pursuant to 326 IAC 2-2-3 (PSD) and 326 IAC 8-1-6 (BACT), the following conditions shall apply to the Pouring station (P13B), Cooling line (P14B), Shakeout (P16B) and Bad Heat Shakeout processes of Plant 1, Casting Line 2:
 - (a) Material Substitution and Lower-Emitting Processes/Practices shall be used to limit VOC emissions.
 - (b) VOC emissions shall not exceed 1.2 pounds per ton of metal throughput to the Pouring station (P13B), Cooling line (P14B), and Shakeout operations (P16B) and Bad Heat Shakeout operations combined.
 - (c) The throughput of metal to the Pouring, Cooling and Shakeout operations (P13B, P14B, and P16B) and Bad Heat Shakeout operations shall not exceed 79,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (d) The installed Advanced Oxidation (AO) system shall be used with a minimum VOC reduction efficiency of 20%.
- (2) Emissions of VOC and the throughput of metal for the Plant 2 ductile iron foundry line, constructed in 1997, shall be limited as follows:
 - (1) VOC emissions from the Melting (1110), Inoculation (1150), Pouring (2000), the Casting Conveyor & Cooling Conveyor (2015 and 2020), and the Casting Shakeout (3010) operations combined shall not exceed 0.8 pound of VOC per ton of metal throughput.
 - (2) The throughput of metal to each of the Melting (1110), Inoculation (1150), Pouring (2000), the Casting Conveyor & Cooling Conveyor (2015 and 2020), and the Casting Shakeout (3010) operations shall not exceed 61,500 tons per twelve (12) consecutive month period.

The metal throughput limit and the VOC emission limits yield VOC emissions from the Plant 2 ductile iron foundry line constructed in 1997 less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a 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 Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in 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.

Compliance Determination Requirements

(a) The following tables summarize the applicable compliance determination requirements:

| Summary of Compliance Testing Requirements Plant 1, Casting Line 2 Processes (2004 PSD BACT PM₁₀ Limits) | | | | | | |
|--|----------------------------------|------------------|-----------------------------|---|----------------|--|
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Filterable PM₁₀ Emission Limitation | | Total PM₁₀ Emission Limitation (lb/ton) (Filterable & Condensable) |
| | | | | (gr/dscf) | (lb/hr) | |
| Melting (P8) & Inoculation (P11) | baghouse DC-3A | PM ₁₀ | Once every 5 years | 0.003 | 1.7 | 0.633 lbs/ton metal |
| Summary of Compliance Testing Requirements Plant 1, Casting Line 2 Processes (2004 PSD BACT PM₁₀ Limits) | | | | | | |
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Filterable PM₁₀ Emission Limitation | | Total PM₁₀ Emission Limitation (lb/ton) (Filterable & Condensable) |
| | | | | (gr/dscf) | (lb/hr) | |
| Melting (P8), Inoculation (P11), & Pouring (P13B) | baghouse DC-3B | PM ₁₀ | Once every 5 years | 0.003 | 1.7 | 0.633 lbs/ton metal |
| Sand Handling (P32B-P37B, P39B) | baghouse BH6400 | PM ₁₀ | Once every 5 years | 0.003 | 1.13 | 0.02 lbs/ton sand |
| Casting Cooling (P14B), Shakeout (P16B), & Casting Conveyors & Desprue (P17B-P22B) operations | baghouse BH6200 | PM ₁₀ | Once every 5 years | 0.003 | 2.85 | 1.045 lbs/ton metal |
| Shot Blast Units (P40-P42), Casting Conveyors & Desprue (P17B-P22B) operations | baghouse DC-8B (exhausts inside) | PM ₁₀ | Once every 5 years | 0.003 | 1.03 | 0.085 lbs/ton metal |
| Casting Conveyors & Desprue (P17B-P22B) operations | baghouse DC-7B (exhausts inside) | PM ₁₀ | Once every 5 years | 0.003 | 0.55 | 0.085 lbs/ton metal |
| Bad Heat Shakeout | baghouse DC-5 | PM ₁₀ | none | 0.003 | 0.45 | 0.03 lbs/ton metal |

| Summary of Compliance Testing Requirements Plant 1, Casting Line 2 Processes (2004 PSD PM Minor Limits) | | | | |
|--|----------------------------------|---------------------|-----------------------------|--------------------------------|
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Emission Limitation |
| Melting (P8), Inoculation (P11), & Pouring (P13B) | baghouse DC-3A, baghouse DC-3B | PM | Once every 5 years | 0.17 lbs/ton metal |
| Sand Handling (P32B-P37B, P39B) | baghouse BH6400 | PM | Once every 5 years | 0.016 lbs/ton sand |
| Casting Cooling (P14B), Shakeout (P16B), & Casting Conveyors & Desprue (P17B-P22B) operations | baghouse BH6200 | PM | Once every 5 years | 0.19 lbs/ton metal |
| Summary of Compliance Testing Requirements Plant 1, Casting Line 2 Processes (2004 PSD PM Minor Limits) | | | | |
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Emission Limitation |
| Shot Blast Units (P40-P42), Casting Conveyors & Desprue (P17B-P22B) operations | baghouse DC-8B (exhausts inside) | PM | Once every 5 years | 0.11 lbs/ton metal |
| Casting Conveyors & Desprue (P17B-P22B) operations | baghouse DC-7 (exhausts inside) | PM | Once every 5 years | 0.037 lbs/ton metal |
| Plant 2 Processes (1997 PSD PM/PM₁₀ Minor Limits) | | | | |
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Emission Limitation |
| Melting, Inoculation and Pouring System (1110, 1150 & 2000) | baghouse BH6010 | PM/PM ₁₀ | Once every 5 years | 0.50 lb/ton metal |
| Holding Furnace | NA | PM/PM ₁₀ | none | 0.10 lb/ton metal |
| Casting Shakeout System (3010) | baghouse BH6030 | PM/PM ₁₀ | Once every 5 years | 1.45 lb/ton metal (for BH6030) |
| Pre-Blast (3055) and Final Blast (3090) Shotblast units | baghouse BH6030 | PM/PM ₁₀ | Once every 5 years | |
| Casting Conveyor and Cooling Conveyor Systems (2015 and 2020) | baghouse BH6020, baghouse BH6030 | PM/PM ₁₀ | Once every 5 years | |
| Sand and Waste Sand Handling System (4000, 4140, and 5000) | baghouse BH6020, baghouse BH6040 | PM/PM ₁₀ | Once every 5 years | 0.05 lb/ton sand (for BH6040) |

| | | | | |
|--|--|---------------------|--|--|
| Grinding (8000) | fabric filters FFA - FFE | PM/PM ₁₀ | Once every 5 years for the two grinders controlled by one fabric filter only | 0.06 lb/ton metal |
| (PSD Minor Limits) | | | | |
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Emission Limitation |
| Charge Handling Operations (P1-P3) | NA | PM/PM ₁₀ | none | 0.24 lbs/ton metal |
| Melting (P8) | baghouse DC-3A | PM/PM ₁₀ | Once every 5 years | 0.20 lbs/ton metal |
| Holding Furnace (P9) | NA | PM/PM ₁₀ | none | 0.10 lbs/ton metal |
| (PSD Minor Limits) | | | | |
| Emission Unit | Control Device | Pollutant | Frequency of Testing | Emission Limitation |
| Grinders 3, 4, 5 & 8 | dust collectors exhausting inside building | PM/PM ₁₀ | none | 0.53 lbs/hr |
| Grinders 6 & 7 | | | | 0.28 lbs/hr |
| Grinder 9 | | | | 0.18 lbs/hr |
| Wheelabrator MeshBelt Blast | baghouse DC-13 | PM | none | 5.7 lbs/hr |
| Wheelabrator MeshBelt Blast | baghouse DC-13 | PM ₁₀ | none | 3.4 lbs/hr |
| Pouring (P13B), Cooling (P14B), & Shakeout (P16B) | None | VOC & CO | Once every 5 years | 2.5 lbs/ton CO 1.2 lbs/ton VOC (BACT limit) |
| Melting, Inoculation and Pouring System (1110, 1150 & 2000), Casting Conveyor and Cooling Conveyor Systems (2015 and 2020), and the Casting Shakeout System (3010) | none | VOC | Once every 5 years | 0.8 lbs/ton metal |
| Pouring operation (2000), Casting Conveyor and Cooling Conveyor Systems (2015 and 2020), and the Casting Shakeout System (3010) | none | CO | Once every 5 years | 3.2 lbs/ton metal |

Compliance Monitoring Requirements

(b) The following table summarizes the applicable compliance monitoring requirements.

| Facilities | Control | Parameter | Frequency | Range/ Value | Excursions and Exceedances |
|--|--------------------------------|--|-----------|--|----------------------------|
| Isocure Core Making (P4, P5, P6 & P7) | dust collector | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Melting (P8), Inoculation (P11) & Pouring (P13B) | baghouses DC-3A & DC-3B | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Cooling (P14B), Shakeout (P16B), Bad Heat Shakeout Unit, & Casting Conveyors & Desprue Operations (P17B, P18B, P19B, P20B, P21B, and P22B) | baghouses BH6200 & DC-5 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Sand System (P32B, P33B, P34B, P35B, P36B, P37B and P39B) | baghouse BH6400 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Wheelabrator MeshBelt Blast | baghouse DC-13 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| Shot Blast units (P40, P41 & P42) | baghouse DC-8B | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| Pouring (P13B), Cooling (P14B), Shakeout (P16B), and Bad Heat Shakeout | Advanced Oxidation (AO) system | power voltage H ₂ O ₂ level | Daily | <ul style="list-style-type: none"> • 1100 W • 2400 V • 1 gal/hr of muller operation | Response Steps |
| Charge Handling (1000A) | none | Visible Emissions | Daily | Normal-Abnormal | Response Steps |
| Melting, Inoculation and Pouring System (1110, 1150 & 2000), Mold Machine (2010) | baghouse BH6010 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Casting Conveyor and Cooling Conveyor Systems (2015 and 2020), Sand and Waste Sand | baghouse BH6020 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |

| Facilities | Control | Parameter | Frequency | Range/Value | Excursions and Exceedances |
|--|----------------------------------|-------------------|-----------|-----------------------------|----------------------------|
| Handling System (4000, 4140, and 5000) | | Visible Emissions | | Normal-Abnormal | |
| Casting Conveyor and Cooling Conveyor Systems (2015 and 2020), Casting Shakeout System (3010), Pre-Blast (3055) & Final Blast (3090) | baghouses BH6030A BH6030B | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Sand and Waste Sand Handling System (4000, 4140, and 5000) | baghouse BH6040 | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |
| | | Visible Emissions | | Normal-Abnormal | |
| Grinding (8000) | fabric filter exhausting to room | Pressure Drop | Daily | 0.5 and 8.0 inches of water | Response Steps |

These monitoring conditions are necessary because the above listed control devices must operate properly to ensure compliance with the PM and PM₁₀ limits pursuant to 326 IAC 2-7 (Part 70).

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit Renewal 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 December 4, 2007.

Conclusion

The operation of this stationary gray and ductile iron foundry shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T139-25610-00011.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

September 23, 2009

Mr. Michael DeSmidt
INTAT Precision, Inc
P.O. Box 488
Rushville, IN 46173

Re: Public Notice
INTAT Precision, Inc
Permit Level: Title V - Renewal
Permit Number: 139-25610-00011

Dear Mr. DeSmidt:

Enclosed is a copy of your draft Title V - Renewal, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has submitted the draft permit package to the Rushville Public Library, 130 W 3rd St in Rushville, IN. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper. The OAQ has requested that the Rushville Republican in Rushville, IN publish this notice no later than September 28, 2009.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Joe Sachse, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5378 or dial (317) 234-5378.

Sincerely,

Michelle Denney
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter. dot 3/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

September 23, 2009

Rushville Republican
Sue Tarvin
126 S Main St
P.O. Box 189
Rushville, IN 46173

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for INTAT Precision, Inc, Rush County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than September 28, 2009.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Michelle Denney at 800-451-6027 and ask for extension 3-6867 or dial 317-233-6867.

Sincerely,

Michelle Denney
Permit Branch
Office of Air Quality

Permit Level: Title V - Renewal
Permit Number: 139-25610-00011

Enclosure
PN Newspaper.dot 6/18/09



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

September 23, 2009

To: Rushville Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: INTAT Precision, Inc
Permit Number: 139-25610-00011

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 03/27/08



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Notice of Public Comment

September 23, 2009
INTAT Precision, Inc
139-25610-00011

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 2-8469 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 3/27/08



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AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

September 23, 2009

A 30-day public comment period has been initiated for:

Permit Number: 139-25610-00011
Applicant Name: INTAT Precision, Inc
Location: Rushville, Rush County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

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

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification.dot 03/23/06

Mail Code 61-53

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| IDEM Staff | MIDENNEY 9/23/2009 INTAT Precision, Inc. 139-25610-00011 (draft) | | Type of Mail: CERTIFICATE OF MAILING ONLY | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | Michael DeSmidt INTAT Precision, Inc. PO Box 488 Rushville IN 46173 (Source CAATS) | | | | | | | | | | |
| 2 | | William Robison Vice President INTAT Precision, Inc. PO Box 488 Rushville IN 46173 (RO CAATS) | | | | | | | | | | |
| 3 | | Rush County Commissioners 101 East Second Street Rushville IN 46173 (Local Official) | | | | | | | | | | |
| 4 | | Rush County Health Department Courthouse, Room 5 Rushville IN 46173-1854 (Health Department) | | | | | | | | | | |
| 5 | | Rushville Public Library 130 W 3rd St Rushville IN 46173-1899 (Library) | | | | | | | | | | |
| 6 | | Rushville Town Council 133 W. First St. Rushville IN 46173 (Local Official) | | | | | | | | | | |
| 7 | | Erin Surinak Environmental Resources Management (ERM) 11350 N Meridian Street Suite 220 Indianapolis IN 46032 (Consultant) | | | | | | | | | | |
| 8 | | Mrs. Bonnie Miller P.O. Box 15 Falmouth IN 46127 (Affected Party) | | | | | | | | | | |
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