INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: October 22, 2007

RE: Bremen Castings, Inc. / 099-25193-00001

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

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

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

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

Enclosures
FNPER-AM.dot 03/23/06

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(800) 451-6027
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Mr. Brad Keller
Bremen Castings, Inc.
P.O. Box 129
Bremen, IN 46506-0129

October 22, 2007

Re: 099-25193-00001
First Administrative Amendment to
Part 70 T099-17583-00001

Dear Mr. Keller:

Bremen Castings, Inc. (BCI) was issued a Part 70 Operating Permit No. T099-17583-00001 on April 20, 2007 for a stationary gray and ductile iron castings manufacturing plant. A letter requesting approval for the addition of the tundish ladle inoculation method for magnesium treatment of molten metal as an alternative to their existing Flowtret inoculation method for magnesium treatment of molten metal was received on August 24, 2007. Pursuant to the provisions of 326 IAC 2-7-11 the permit is hereby administratively amended as described in the attached Technical Support Document.

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

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Trish Earls, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (201) 722-1460 to speak directly to Ms. Earls. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027, and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Original signed by,

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments
ERG/TE
cc: File - Marshall County
U.S. EPA, Region V
Marshall County Health Department
IDEM Northern Regional Office
Air Compliance Section Inspector
Compliance Data Section
Administrative and Development
Technical Support and Modeling
Billing, Licensing and Training Section - Dan Stamatkin

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Indianapolis, Indiana 46204-2251
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(800) 451-6027
www.IN.gov/idem

PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Bremen Casting, Inc.
500 N. Baltimore St.
Bremen, Indiana 46506

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

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

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

Operation Permit No.: T 099-17583-00001	
Original Signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: April 20, 2007 Expiration Date: April 20, 2012

First Administrative Amendment No.: 099-25193-00001	Affected Pages: Entire Permit
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 22, 2007 Expiration Date: April 20, 2012

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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 castings manufacturing plant.

Source Address:	500 N. Baltimore St., Bremen, Indiana 46506
Mailing Address:	P.O. Box 129, Bremen, Indiana 46506-0129
General Source Phone Number:	(574) 546-2411
SIC Code:	3321
County Location:	Marshall
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

(a) One (1) charge handling operation for charge materials for melting furnaces, installed in 1970, exhausting inside the building;

(b) One (1) cupola melting operation consisting of the following:

(1) one (1) 14 tons per hour cupola furnace, identified as CUPOLA, installed in 1972, equipped with a natural gas fired cupola afterburner, rated at 4.3 million BTU (MMBTU) per hour and a wet scrubber, identified as WS#1, for particulate matter control, and exhausting through one (1) stack, identified as DS-9;

(2) one (1) 40 ton electric induction holding furnace for holding molten metal from the cupola furnace, installed in 1988; and

(3) ladles for pouring molten metal into the molds.

(c) One (1) electric induction furnace (EIF) melting operation consisting of the following:

(1) two (2) 4.0 tons per hour electric induction furnaces, identified as #1 and #2, each installed in 1995, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(2) One (1) inoculation operation for magnesium treatment of the molten metal in the furnaces to produce ductile iron using either the Flowtret method of magnesium treatment or as an alternative, the tundish ladle method of magnesium treatment. This operation was modified in 2007 to include the tundish ladle method of magnesium treatment consisting of tundish ladles where magnesium treatment occurs; and

(3) ladles for pouring molten metal into the molds.

(d) Five (5) mold making lines, with a combined maximum metal throughput capacity of 20 tons per hour and a combined green sand throughput of 100 tons per hour, exhausting inside the building as follows:

(1) One (1) mold making line, identified as Hunter #1, consisting of the following:

(A) One (1) mold making machine, installed in 2002; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 4 tons per hour;

(2) One (1) mold making line, identified as Hunter #2, consisting of the following:

(A) One (1) mold making machine, installed in 1974 and modified in 2005; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 4 tons per hour;

(3) One (1) mold making line, identified as Hunter #5, consisting of the following:

(A) One (1) mold making machine, installed in 1979; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 3 tons per hour;

(4) One (1) mold making line, identified as Hunter #6, consisting of the following:

(A) One (1) mold machine, identified as Hunter #6, installed in 1981; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 3 tons per hour;

(5) One (1) mold making line, identified as Sinto #1, consisting of the following:

(A) One (1) mold machine, identified as Sinto #1, installed in 1998; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 6 tons per hour;

(e) A mold sand handling system for all molding lines, installed in 1975, with a maximum sand throughput of 100 tons per hour, consisting of:

(1) one (1) shakeout system, including one (1) shaker pan and one (1) rotary shakeout, with particulate matter emissions controlled by a baghouse, identified as DC-2,

(2) one (1) sand muller, two (2) silos, two (2) sand storage tanks, two (2) elevators, conveyors, one (1) magnetic separator, one (1) sand cooler, one (1) sand screen, and one (1) recycle sand hopper, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(f) A shell core making process consisting of seven (7) natural gas fired shell core machines, identified as shell core machines #1, #2, #3, #4, #5, #6 and #7 installed in 1964, 1964, 1964, 1972, 1970, 1970, and 1963, respectively, with shell core machines #1 through #4 each rated at 0.15 MMBtu per hour, shell core machines #5 and #6 each rated at 0.125 MMBtu per hour, and shell core machine #7 rated at 0.093 MMBtu per hour, with a maximum capacity of 0.70 tons of cores per hour in total, exhausting through two stacks identified as RE-19 and RE-20;

(g) An isocure core making process consisting of the following:

(A) one (1) New Sand Silo, exhausting through Bin Vent #3 which exhausts through stack BV-3;

(B) one (1) sand mixer with a capacity of three (3) tons of sand per hour, approved for construction in 2007, exhausting through Bin Vent #4 which exhausts inside the building;

(C) three (3) phenolic urethane isocure core machines, identified as Isocure #1, Isocure #2 and Isocure #3, installed in 1978, 1978 and 2002, respectively, each with a maximum capacity of 1.0 ton of cores per hour, exhausting through one (1) stack, identified as DS-12; and

(D) two (2) working core storage areas, exhausting through stacks EF-1 and EF-2.

(h) A grinding/cleaning operation, controlled by a baghouse (DC-1), and exhausting through one (1) stack (DC-1), including:

(1) three (3) shot blast machines, identified as Shot #1 - #3, installed in 1944, 1963 and 1974, respectively, with a combined metal throughput capacity of 8.4 tons per hour, and

(2) grinding/finishing, identified as Grinder #1 - #9, installed in 1987, 1987, 1987, 1987, 1987, 1987, 2000, 2001, and 2001, respectively, with a combined metal throughput capacity of 8.4 tons per hour, and

(3) one robotic grinder, identified as Grinder Auto Foxall #10, installed in 2005.

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) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations;

(1) Two (2) grinding units with PM emissions controlled by baghouse DC-1 and exhausting through stack DC-1; and [326 IAC 6-3]

(b) Paved and unpaved roads and parking lots with public access; [326 IAC 6-4]

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, T099-17583-00001, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

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

(a) 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 Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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) 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 health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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.

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 T099-17583-00001 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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
Permits Branch, 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
Permits Branch, Office of Air Quality
MC 61-53 IGCN 1003
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2] [326 IAC 2-3-2]

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

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

B.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 at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
MC 61-53 IGCN 1003
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

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

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

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 ICGN 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 Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on January 21, 1999.

(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;

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

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

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

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue MC 61-52 ICGN 1003
MC 61-50 ICGN 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.

(c) If there is 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)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
(i) Baseline actual emissions;
(ii) Projected actual emissions;
(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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 (c) in Section C- General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ :

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

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

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

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

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

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

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

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 ICGN 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 FACILITY OPERATION CONDITIONS

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

(a) One (1) charge handling operation for charge materials for melting furnaces, installed in 1970, exhausting inside the building;

(b) One (1) cupola melting operation consisting of the following:

(1) one (1) 14 tons per hour cupola furnace, identified as CUPOLA, installed in 1972, equipped with a natural gas fired cupola afterburner, rated at 4.3 million BTU (MMBTU) per hour and a wet scrubber, identified as WS#1, for particulate matter control, and exhausting through one (1) stack, identified as DS-9;

(2) one (1) 40 ton electric induction holding furnace for holding molten metal from the cupola furnace, installed in 1988; and

(3) ladles for pouring molten metal into the molds.

(c) One (1) electric induction furnace (EIF) melting operation consisting of the following:

(1) two (2) 4.0 tons per hour electric induction furnaces, identified as #1 and #2, each installed in 1995, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(2) One (1) inoculation operation for magnesium treatment of the molten metal in the furnaces to produce ductile iron using either the Flowtret method of magnesium treatment or as an alternative, the tundish ladle method of magnesium treatment. This operation was modified in 2007 to include the tundish ladle method of magnesium treatment consisting of tundish ladles where magnesium treatment occurs; and

(3) ladles for pouring molten metal into the molds.

(d) Five (5) mold making lines, with a combined maximum metal throughput capacity of 20 tons per hour and a combined green sand throughput of 100 tons per hour, exhausting inside the building as follows:

(1) One (1) mold making line, identified as Hunter #1, consisting of the following:

(A) One (1) mold making machine, installed in 2002; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 4 tons per hour;

(2) One (1) mold making line, identified as Hunter #2, consisting of the following:

(A) One (1) mold making machine, installed in 1974 and modified in 2005; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 4 tons per hour;

(3) One (1) mold making line, identified as Hunter #5, consisting of the following:

(A) One (1) mold making machine, installed in 1979; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 3 tons per hour;

(4) One (1) mold making line, identified as Hunter #6, consisting of the following:

(A) One (1) mold machine, identified as Hunter #6, installed in 1981; and

(B) One (1) pouring and cooling operation, with a maximum metal throughput of 3 tons per hour;

(5) One (1) mold making line, identified as Sinto #1, consisting of the following:

(A) One (1) mold machine, identified as Sinto #1, installed in 1998; and
(B) One (1) pouring and cooling operation, with a maximum metal throughput of 6 tons per hour;

(e) A mold sand handling system for all molding lines, installed in 1975, with a maximum sand throughput of 100 tons per hour, consisting of:

(1) one (1) shakeout system, including one (1) shaker pan and one (1) rotary shakeout, with particulate matter emissions controlled by a baghouse, identified as DC-2,

(2) one (1) sand muller, two (2) silos, two (2) sand storage tanks, two (2) elevators, conveyors, one (1) magnetic separator, one (1) sand cooler, one (1) sand screen, and one (1) recycle sand hopper, with particulate matter emissions controlled by a baghouse, identified as DC-2;

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

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

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

Pursuant to Significant Source Modification No.: 099-15758-00001, issued December 19, 2002, and revised by this permit:

(a) The amount of iron poured on the mold line Hunter #1 shall not exceed 14,994 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) PM emissions from the Hunter #1 mold line shall not exceed 3.10 pounds of PM per ton of iron poured;

(c) PM10 emissions from Hunter #1 mold line shall not exceed 2.00 pounds of PM10 per ton of iron poured.

Compliance with these limits will limit PM emissions from the Hunter #1 mold line to less than 25 tons per year and will limit PM10 emissions to less than 15 tons per year, therefore, the requirements of 326 IAC 2-2 (PSD) do not apply to the modification in 2002.

D.1.2 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

(a) The amount of iron poured on the mold line Sinto #1 shall not exceed 30,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) Total CO emissions from pouring, cooling, and shakeout in the Sinto #1 molding line shall not exceed 6.0 pounds of CO per ton of iron poured.

Compliance with these limits will limit CO emissions from the Sinto #1 mold line to less than 100 tons per year, therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) do not apply to the modification in 1998.

D.1.3 Particulate Emission Limitations [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 facilities listed below are as follows:

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

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

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

and

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:

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

Process Description	Process Weight Rate (ton/hr)	326 IAC 6-3-2 Allowable (lb/hr)
Two (2) Electric Induction Furnace	4.0 each	10.38 each
Inoculation (Mg Treatment)	8.0	16.51
Charge Handling	12.0	21.67
Pouring / Cooling		
Hunter #1 Line	45.2	43.64
Hunter #2 Line	45.2	43.64
Hunter #5 Line	21.9	32.42
Hunter #6 Line	21.9	32.42
Sinto #1 Line	54.0	45.29
Casting Shakeout	20.0	21.67
Mold Sand Handling	100	51.28

D.1.4 Particulate Emission Limitations [326 IAC 11-1-2]

Pursuant to 326 IAC 11-1-2, the allowable particulate emission rate from the cupola shall not exceed 26.4 pounds per hour when operating at a process weight rate of 24,000 pounds per hour.

D.1.5 Metallic HAP Minor Limits

(a) Emissions of lead from the cupola shall not exceed 6.88 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the cupola shall not exceed 2.06 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emission of any combination of HAPs from the cupola shall not exceed 6.88 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the two (2) electric induction furnaces and the inoculation process shall not exceed 0.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the two (2) electric induction furnaces and the inoculation process shall not exceed 0.09 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emissions of any combination of HAPs from the two (2) electric induction furnaces and the inoculation process shall not exceed 0.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(g) Total emissions of lead from the casting shakeout operation for all mold lines shall not exceed 0.26 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(h) Total emissions of manganese from the casting shakeout operation for all mold lines shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(i) Total emissions of any combination of metal HAPs from the casting shakeout operation for all mold lines shall not exceed 1.30 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

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

(j) The Permittee shall operate the cupola afterburner 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.

D.1.6 Organic HAP Minor Limits

(a) The total emissions of toluene from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) The total emissions of phenol from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) The total emissions of benzene from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) The total emissions of any combination of organic HAPs from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

(e) The total organic HAPs emissions from the cupola shall not exceed 0.02 pounds per hour.

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

D.1.7 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 cupola, the electric induction furnaces and their control devices, and the metal pouring/cooling operations.

Compliance Determination Requirements

D.1.8 Particulate and HAP Emission Control

(a) In order to comply with conditions D.1.3, D.1.4, and D.1.5, the baghouse, wet scrubber and afterburner for particulate and metal HAP control shall be in operation and control emissions from the cupola, casting shakeout, and the electric induction furnaces at all times that the 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.

(c) In order to comply with Condition D.1.6, the afterburner shall be in operation and control organic HAPs emissions from the cupola at all times that the cupola is in operation.

D.1.9 Testing Requirements [326 IAC 2-7-6(1), (6)]

(a) Between July 2011 and January 2012, the Permittee shall conduct PM (filterable) stack testing for the metal pouring/cooling operation for one (1) of the Hunter #2, Hunter #5, Hunter #6 lines utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Between January 2010 and July 2010, the Permittee shall conduct a PM (filterable) stack test for the Sinto #1 line utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

(c) Between August 2009 and February 2010, the Permittee shall conduct PM (filterable) and PM-10 (filterable and condensible) stack tests for the Hunter #1 line utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

(d) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform CO and total organic HAP testing on the each of the pouring, cooling and casting shakeout operations 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.

(e) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Condition D.1.5, the Permittee shall perform lead and manganese testing on the cupola, one of the induction furnaces and inoculation process, and the casting shakeout operation 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.

(f) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Condition D.1.6, the Permittee shall perform total organic HAPs testing on the cupola, 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.1.10 Metal HAP Emissions

Compliance with the HAP limits in condition D.1.5 shall be demonstrated using the following equations:

(a) Lead Emissions from the cupola (tons/yr) = EF_{CPb} (lb/ton) x M_C (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CPb} = 0.0534 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_C = total metal throughput to the cupola (tons per twelve (12) consecutive month period)

(b) Lead Emissions from the two (2) electric induction furnaces and inoculation process (tons/yr) = EF_{FPb} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FPb} = 0.001635 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the two (2) electric induction furnaces and inoculation process (tons per twelve (12) consecutive month period)

(c) Lead Emissions from the Casting Shakeout operation (tons/yr) = EF_{CSPb} (lb/ton) x M_{CS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{CSPb} = 0.00037 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CS} = total metal throughput to the Casting Shakeout operation (tons per twelve (12) consecutive month period)

(d) Manganese Emissions from the cupola (tons/yr) = EF_{CMn} (lb/ton) x M_C (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CMn} = 0.038 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_C = total metal throughput to the cupola (tons per twelve (12) consecutive month period)

(e) Manganese Emissions from the two (2) electric induction furnaces (tons/yr) = EF_{FMn} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{Fmn} = 0.000837 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the two (2) electric induction furnaces (tons per twelve (12) consecutive month period)

(f) Manganese Emissions from the Casting Shakeout operation (tons/yr) = EF_{CSMn} (lb/ton) x M_{CS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{CSMn} = 0.003 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CS} = total metal throughput to the Casting Shakeout operation (tons per twelve (12) consecutive month period)

(g) Total Metal HAP Emissions from the cupola (tons/yr) = EF_{CTM} (lb/ton) x M_C (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{CTM} = 0.0952 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_C = total metal throughput to the cupola (tons per twelve (12) consecutive month period)

(h) Total Metal HAP Emissions from the two (2) electric induction furnaces (tons/yr) = EF_{FTM} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{FTM} = 0.00255 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_F = total metal throughput to the two (2) electric induction furnaces (tons per twelve (12) consecutive month period)

(i) Total Metal HAP Emissions from the Casting Shakeout operation (tons/yr) = EF_{CSTM} (lb/ton) x M_{CS} (tons per twelve (12) consecutive month period)] x (1 ton / 2000 pounds)

Where:
EF_{CSTM} = 0.0036 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{CS} = total metal throughput to the Casting Shakeout operation (tons per twelve (12) consecutive month period)

(j) Upon IDEM approval of lead and manganese compliance stack test results on the cupola and one (1) of the two (2) electric induction furnaces, the following shall apply:

(1) The lead and manganese emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{CPb}, EF_{CMn}, EF_{FPb}, and $EF_{FMn.}$

(2) The total metal HAP emission factor in pound per ton that shall be used for the variables EF_{CTM} and EF_{FTM} shall be the sum of the lead emission factor obtained from the stack test, the manganese emission factor obtained from the stack test and the remaining non-lead and non-manganese metal HAP emission factors used to calculate emissions.

(k) Upon IDEM approval of total metal HAP compliance stack test results on the Casting Shakeout operation, the following shall apply:

(1) The lead and manganese emission factors in pound per ton obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{CSPb} and $EF_{CSMn.}$

(2) The total metal HAP emission factor in pound per ton that shall be used for the variable EF_{CSTM} shall be the total metal HAP emission factor obtained from the stack test.

D.1.11 Organic HAP Emissions

Compliance with the HAP limits in condition D.1.6 shall be demonstrated using the following equations:

(a) Toluene Emissions from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operation (tons/yr) = EF_{H1PCST} (lb/ton) x M_{H1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H2PCST} (lb/ton) x M_{H2PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H5PCST} (lb/ton) x M_{H5PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H6PCST} (lb/ton) x M_{H6PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) EF_{S1PCST} (lb/ton) x M_{S1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{H1PCST} =toluene emissions from Hunter #1 pouring, cooling, and shakeout (0.0647 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H2PCST} =toluene emissions from Hunter #2 pouring, cooling, and shakeout (0.0647 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H5PCST} =toluene emissions from Hunter #5 pouring, cooling, and shakeout (0.0647 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H6PCST} =toluene emissions from Hunter #6 pouring, cooling, and shakeout (0.0647 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{s1PCST} =toluene emissions from Sinto #1 pouring, cooling, and shakeout (0.0647 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{H1PCS} = total metal throughput to the Hunter #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H2PCS} = total metal throughput to the Hunter #2 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H5PCS} = total metal throughput to the Hunter #5 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H6PCS} = total metal throughput to the Hunter #6 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{s1PCS} = total metal throughput to the Sinto #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

(b) Phenol Emissions from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operation (tons/yr) = EF_{H1PCSP} (lb/ton) x M_{H1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H2PCSP} (lb/ton) x M_{H2PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H5PCSP} (lb/ton) x M_{H5PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H6PCSP} (lb/ton) x M_{H6PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) EF_{S1PCSP} (lb/ton) x M_{S1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{H1PCSP} =phenol emissions from Hunter #1 pouring, cooling, and shakeout (0.0718 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H2PCSP} =phenol emissions from Hunter #2 pouring, cooling, and shakeout (0.0718 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H5PCSP} =phenol emissions from Hunter #5 pouring, cooling, and shakeout (0.0718 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H6PCSP} =phenol emissions from Hunter #6 pouring, cooling, and shakeout (0.0718 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{s1PCSP} =phenol emissions from Sinto #1 pouring, cooling, and shakeout (0.0718 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{H1PCS} = total metal throughput to the Hunter #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H2PCS} = total metal throughput to the Hunter #2 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H5PCS} = total metal throughput to the Hunter #5 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H6PCS} = total metal throughput to the Hunter #6 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{s1PCS} = total metal throughput to the Sinto #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

(c) Benzene Emissions from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operation (tons/yr) = EF_{H1PCSB} (lb/ton) x M_{H1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H2PCSB} (lb/ton) x M_{H2PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H5PCSB} (lb/ton) x M_{H5PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H6PCSB} (lb/ton) x M_{H6PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) EF_{S1PCSB} (lb/ton) x M_{S1PCS}

(tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{H1PCSB} =benzene emissions from Hunter #1 pouring, cooling, and shakeout (0.1643 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H2PCSB} = benzene emissions from Hunter #2 pouring, cooling, and shakeout (0.1643 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H5PCSB} = benzene emissions from Hunter #5 pouring, cooling, and shakeout (0.1643 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H6PCSB} =benzene emissions from Hunter #6 pouring, cooling, and shakeout (0.1643 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{s1PCSB} = benzene emissions from Sinto #1 pouring, cooling, and shakeout (0.1643 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{H1PCS} = total metal throughput to the Hunter #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H2PCS} = total metal throughput to the Hunter #2 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H5PCS} = total metal throughput to the Hunter #5 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H6PCS} = total metal throughput to the Hunter #6 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{s1PCS} = total metal throughput to the Sinto #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

(d) Total organic HAP Emissions from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operation (tons/yr) = $EF_{H1PCSTO}$ (lb/ton) x M_{H1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H2PCSO} (lb/ton) x M_{H2PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H5PCSO} (lb/ton) x M_{H5PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) + EF_{H6PCSO} (lb/ton) x M_{H6PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds) EF_{S1PCSO} (lb/ton) x M_{S1PCS} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{H1PCSO} =total organic HAPs emissions from Hunter #1 pouring, cooling, and shakeout (0.4475 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H2PCSO} = total organic HAPs emissions from Hunter #2 pouring, cooling, and shakeout (0.4475 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H5PCSO} = total organic HAPs emissions from Hunter #5 pouring, cooling, and shakeout (0.4475 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{H6PCSO} = total organic HAPs emissions from Hunter #6 pouring, cooling, and shakeout (0.4475 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

EF_{s1PCSO} = total organic HAPs emissions from Sinto #1 pouring, cooling, and shakeout (0.4475 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{H1PCS} = total metal throughput to the Hunter #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H2PCS} = total metal throughput to the Hunter #2 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H5PCS} = total metal throughput to the Hunter #5 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{H6PCS} = total metal throughput to the Hunter #6 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

M_{s1PCS} = total metal throughput to the Sinto #1 pouring, cooling and shakeout operations (tons per twelve (12) consecutive month period)

(e) Upon IDEM approval of total organic HAP compliance stack test results on the Sinto #1 pouring, cooling and casting shakeout operations, the toluene, phenol, benzene and total organic HAP emission factors in pound per pound obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{H1PCST}, EF_{H2PCST}, EF_{H5PCST}, EF_{H6PCST}, EF_{S1PCST}, EF_{H1PCSP}, EF_{H2PCSP}, EF_{H5PCSP}, EF_{H6PCSP}, EF_{S1PCSP}, EF_{H1PCSB}, EF_{H2PCSB}, EF_{H5PCSB}, EF_{H6PCSB}, EF_{S1PCSB}, EF_{H1PCSO}, EF_{H2PCSO}, EF_{H5PCSO}, EF_{H6PCSO}, and EF_{S1PCSO},.

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

D.1.12 Visible Emissions Notations [40 CFR Part 64]

(a) Daily visible emission notations of the electric induction furnaces, mold sand handling, and casting shakeout baghouse stack exhaust (DC-2), and the pouring/cooling operations shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

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

response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

Compliance with the above monitoring conditions shall also satisfy the requirements of 40 CFR 64, Compliance Assurance Monitoring for the mold sand handling and casting shakeout operations.

D.1.13 Parametric Monitoring [40 CFR Part 64]

(a) The Permittee shall record the pressure drop across the scrubber used in conjunction with the cupola, at least once per day when the cupola is in operation. When for any one reading, the scrubbing water flow rate is less than 70 gallons per minute and the pressure drop across the scrubber is less than 23 inches of water or water flow rate and pressure drop ranges established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A water flow rate and pressure reading that are outside the above mentioned ranges are 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.

Compliance with the above monitoring conditions shall also satisfy the requirements of 40 CFR 64, Compliance Assurance Monitoring for the cupola.

(b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the electric induction furnaces, mold sand handling, and casting shakeout, at least once per day when the processes are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 9.0 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.

Compliance with the above monitoring conditions shall also satisfy the requirements of 40 CFR 64, Compliance Assurance Monitoring for the mold sand handling and casting shakeout operations.

D.1.14 Broken or Failed Bag Detection

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

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

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

D.1.15 Scrubber Failure Detection [40 CFR Part 64]

In the event that scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

Compliance with the above monitoring conditions shall also satisfy the requirements of 40 CFR 64, Compliance Assurance Monitoring for the cupola.

D.1.16 Afterburner Temperature

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the cupola for measuring operating temperature of the cupola gas stream. For the purpose of this condition, continuous shall mean no less than once per 15-minute period. The output of this system shall be recorded as 1 hour average. From the date of issuance of this permit until the approved stack test results are available, the Permittee shall take appropriate response steps in accordance with Section C - Response to Excursions or Exceedances whenever the 1-hour average temperature of the afterburner is below 1300°F. A 1-hour average temperature that is below 1300°F 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 determine the 1-hour average temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.1.5, as approved by IDEM.

(c) On and after the date the approved stack test results are available, the Permittee shall take appropriate response steps in accordance with Section C - Response to Excursions or Exceedances whenever the 1-hour average temperature of the afterburner is below the 15-minute average temperature as observed during the compliant stack test. A 1-hour average temperature that is below the 1-hour average temperature as observed during the compliant stack test 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.

(d) These minimum temperature requirements apply at all times during operation of the cupola, except for the following:

(1) periods when the cupola blast air is turned off;
(2) periods when the blast air has been turned on for less than 30 consecutive minutes; and
(3) during the last 30 minutes of operation of the cupola.

The Permittee shall monitor the times that the cupola blast air is turned on and off.

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

D.1.17 Record Keeping Requirements

(a) To document compliance with Condition D.1.1(a), the Permittee shall maintain records of the amount of iron poured on the mold line Hunter #1.

(b) To document compliance with Condition D.1.2(a), the Permittee shall maintain records of the amount of iron poured on the mold line Sinto #1.

(c) To document compliance with Condition D.1.5, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the cupola, electric induction furnaces, and Casting Shakeout operation for each month;
(2) Metallic HAP stack test results for the cupola, electric induction furnaces, and Casting Shakeout operations as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.1.10; and
(4) Metallic HAP emissions in tons per year.

(d) To document compliance with Condition D.1.6, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the pouring, cooling and shakeout operations for each month;
(2) Organic HAP stack test results for the each of the pouring, cooling and casting shakeout operations as applicable;
(3) Organic HAP emission calculations performed using the equations in condition D.1.11; and
(4) Organic HAP emissions in tons per year.

(e) To document compliance with Condition D.1.12, the Permittee shall maintain records of once per day visible emission notations of the electric induction furnaces, mold sand handling, and casting shakeout baghouse stack exhaust (DC-2), the pouring/cooling operations, and the shot blaster and grinding/finishing baghouse stack exhaust (DC-1).

(f) To document compliance with Condition D.1.13, the Permittee shall maintain records once per day of the water flow rate and pressure drop.

(g) To document compliance with Condition D.1.16, the Permittee shall maintain the continuous temperature records for the afterburner (reduced to hourly averages), the 1-hour average temperature used to demonstrate compliance during the most recent compliant stack test, and the times when the cupola blast air is turned on and off.

(h) The Permittee shall maintain a record of the annual emissions for the electric induction furnaces EIF #1 and #2, in tons per year on a calendar year basis, for a period of ten (10) years following February 2005.

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

D.1.18 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1(a), D.1.2(a), D.1.5 and D.1.6 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(f) A shell core making process consisting of seven (7) natural gas fired shell core machines, identified as shell core machines #1, #2, #3, #4, #5, #6 and #7 installed in 1964, 1964, 1964, 1972, 1970, 1970, and 1963, respectively, with shell core machines #1 through #4 each rated at 0.15 MMBtu per hour, shell core machines #5 and #6 each rated at 0.125 MMBtu per hour, and shell core machine #7 rated at 0.093 MMBtu per hour, with a maximum capacity of 0.70 tons of cores per hour in total, exhausting through two stacks identified as RE-19 and RE-20;

(g) An isocure core making process consisting of the following:

(A) one (1) New Sand Silo, exhausting through Bin Vent #3 which exhausts through stack BV-3;
(B) one (1) sand mixer with a capacity of three (3) tons of sand per hour, approved for construction in 2007, exhausting through Bin Vent #4 which exhausts inside the building;
(C) three (3) phenolic urethane isocure core machines, identified as Isocure #1, Isocure #2 and Isocure #3, installed in 1978, 1978 and 2002, respectively, each with a maximum capacity of 1.0 ton of cores per hour, exhausting through one (1) stack, identified as DS-12; and
(D) two (2) working core storage areas, exhausting through stacks EF-1 and EF-2.

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

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

D.2.1 Particulate Emission Limitations [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the shell core sand handling operation shall not exceed 3.23 pounds per hour when operating at a process weight rate of 0.7 tons per hour.

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Isocure core sand handling process shall not exceed 8.56 pounds per hour when operating at a process weight rate of 3.0 tons per hour.

The pounds per hour limitations were calculated using the following equation:

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

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

D.2.2 Minor Source Modifications [326 IAC 2-7-10.5(d)]

Pursuant to 326 IAC 2-7-10.5(d)(4)(C) (Minor Source Modifications), the bin vent filter (Bin Vent #4) shall limit the PM emissions from the sand mixer to less than 25 tons per year and shall comply with the following limits when the sand mixer is in operation:

(a) Operate with a control efficiency of at least 99 %; and

(b) Have no visible emissions.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

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

D.2.4 Particulate Emission Control

In order to comply with conditions D.2.1(b) and D.2.2, the bin vent filters identified as Bin Vent #3 and Bin Vent #4 shall be in operation at all times that Isocure sand handling is in operation.

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

D.2.5 Visible Emissions Notations

(a) Daily visible emission notations of the core sand handling bin vent stack exhaust (BV-3) shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

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

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

D.2.6 Record Keeping Requirements

(a) To document compliance with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the core sand handling bin vent stack exhaust (BV-3) once per day.

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(h) A grinding/cleaning operation, controlled by a baghouse (DC-1), and exhausting through one (1) stack (DC-1), including:

(1) three (3) shot blast machines, identified as Shot #1 - #3, installed in 1944, 1963 and 1974, respectively, with a combined metal throughput capacity of 8.4 tons per hour, and

(2) grinding/finishing, identified as Grinder #1 - #9, installed in 1987, 1987, 1987, 1987, 1987, 1987, 2000, 2001, and 2001, respectively, with a combined metal throughput capacity of 8.4 tons per hour, and

(3) one robotic grinder, identified as Grinder Auto Foxall #10, installed in 2005.

Insignificant Activity:

(a) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations;

(1) Two (2) grinding units with PM emissions controlled by baghouse DC-1 and exhausting through stack DC-1; [326 IAC 6-3]

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

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

D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

(a) Total PM emissions from Grinders #1 through #9 shall not exceed 5.68 pounds per hour;

(b) Total PM10 emissions from Grinders #1 through #9 shall not exceed 3.4 pounds per hour;

Compliance with the above limits for Grinders #1 through #9 shall limit PM and PM10 emissions to less than 25 and 15 tons per year, respectively, therefore the requirements of 326 IAC 2-2 (PSD) do not apply to the modifications in 1987, 2000 and 2001.

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

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the shot blast machines #1 - #3 and grinding/finishing operations are as follows:

The pounds per hour limitations were calculated using the following equation:

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

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

Process Description	Process Weight Rate (ton/hr)	326 IAC 6-3-2 Allowable (lb/hr)
Shotblast #1 - #3	8.4	17.06
Grinding /Finishing	8.4	17.06

(b) 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. This limit applies to the following insignificant activities:

(1) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations;

(A) Two (2) grinding units with PM emissions controlled by baghouse DC-1 and exhausting through stack DC-1. [326 IAC 6-3]

D.3.3 Metallic HAP Minor Limits

(a) Emissions of lead from the shot blast machines Shot #1 - #3 shall not exceed 0.58 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Emissions of manganese from the shot blast machines Shot #1 - #3 shall not exceed 1.78 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Emission of any combination of metal HAPs from the shot blast machines Shot #1 - #3 shall not exceed 2.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(d) Emissions of lead from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 0.58 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(e) Emissions of manganese from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 1.78 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

(f) Emission of any combination of metal HAPs from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 2.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

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

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the grinding/cleaning operation and any control devices.

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

D.3.5 Particulate and HAP Emission Control

(a) In order to comply with conditions D.3.1, D.3.2, and D.3.3, the baghouse (DC-1) for particulate and metal HAP control shall be in operation and control emissions from the grinding/cleaning operation at all times that the 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.

D.3.6 Metal HAP Emissions

Compliance with the HAP limits in condition D.3.3 shall be demonstrated using the following equations:

(a) Lead Emissions from the shot blast machines Shot #1 - #3 (tons/yr) = EF_{SBPb} (lb/ton) x M_{SB} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{SBPb} = 0.002 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{SB} = total metal throughput to the shot blast machines Shot #1 - #3 (tons per twelve (12) consecutive month period)

(b) Lead Emissions from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons/yr) = EF_{GPb} (lb/ton) x M_G (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{GPb} = 0.002 pound lead per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_G = total metal throughput to the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons per twelve (12) consecutive month period)

(c) Manganese Emissions from the shot blast machines Shot #1 - #3 (tons/yr) = EF_{SBMn} (lb/ton) x M_{SB} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{SBMn} = 0.016 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{SB} = total metal throughput to the shot blast machines Shot #1 - #3 (tons per twelve (12) consecutive month period)

(d) Manganese Emissions from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons/yr) = EF_{GMn} (lb/ton) x M_G (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{Gmn} = 0.016 pound manganese per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_G = total metal throughput to the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons per twelve (12) consecutive month period)

(e) Total Metal HAP Emissions from the shot blast machines Shot #1 - #3 (tons/yr) = EF_{SBTM} (lb/ton) x M_{SB} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{SBTM} = 0.019 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_{SB} = total metal throughput to the shot blast machines Shot #1 - #3 (tons per twelve (12) consecutive month period)

(f) Total Metal HAP Emissions from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons/yr) = EF_{GTM} (lb/ton) x M_G (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:
EF_{GTM} = 0.019 pound combined metal HAP per ton of metal throughput (or an emission factor determined from the most recent compliance stack test)
M_G = total metal throughput to the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 (tons per twelve (12) consecutive month period)

(g) Upon IDEM approval of any HAP compliance stack test results on the shot blast machines Shot #1 - #3 or the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10, the HAP emission factors obtained from the IDEM approved stack test results shall be used for the variables identified above as EF_{SBPb}, EF_{GPb}, EF_{SBMn}, EF_{GMn}, EF_{SBTM}, and EF_{GTM} as applicable.

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

D.3.7 Visible Emissions Notations [40 CFR Part 64]

Pursuant to 40 CFR Part 64, the following requirements apply:

(a) Daily visible emission notations of the shot blaster and grinding/finishing baghouse stack exhaust (DC-1) shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

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

D.3.8 Parametric Monitoring [40 CFR Part 64]

Pursuant to 40 CFR Part 64, the Permittee shall record the pressure drop across the baghouse (DC-1) used in conjunction with the grinding/cleaning operation, at least once per day when the processes are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 9.0 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.3.9 Broken or Failed Bag Detection

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

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

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

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

D.3.10 Record Keeping Requirements

(a) To document compliance with Condition D.3.7, the Permittee shall maintain records of visible emission notations of the grinding/cleaning operation baghouse stack exhaust once per day.

(b) To document compliance with Condition D.3.8, the Permittee shall maintain records once per day of the pressure drop.

(c) To document compliance with Condition D.3.3, the Permittee shall maintain records of the following:

(1) tons of metal throughput to each of the shot blast machines Shot #1 - #3 and the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 for each month;
(2) Metallic HAP stack test results for the shot blast machines Shot #1 - #3 or the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 as applicable;
(3) Metallic HAP emission calculations performed using the equations in condition D.3.6; and
(4) Metallic HAP emissions in tons per year.

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

D.3.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.3 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001

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

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

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

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

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

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: Mold line Hunter #1
Parameter: Iron poured on Hunter #1
Limit: 14,994 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Iron Poured This Month	Iron Poured Previous 11 Months	Iron Poured 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: Mold line Sinto #1
Parameter: Iron poured on Sinto #1
Limit: 30,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Iron Poured This Month	Iron Poured Previous 11 Months	Iron Poured 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: cupola
Parameter: Lead, Manganese, and Total Metal HAP emissions
Limit:
(a) Emissions of lead from the cupola shall not exceed 6.88 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the cupola shall not exceed 2.06 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emission of any combination of HAPs from the cupola shall not exceed 6.88 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.1.10(a), (d), and (g). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

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

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

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

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: two (2) electric induction furnaces and inoculation process
Parameter: Lead, Manganese, and Total Metal HAP emissions
Limit:
(a) Emissions of lead from the two (2) electric induction furnaces and inoculation process shall not exceed 0.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the two (2) electric induction furnaces and inoculation process shall not exceed 0.09 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emissions of any combination of HAPs from the two (2) electric induction furnaces and inoculation process shall not exceed 0.36 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.1.10(b), (e), and (h). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

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

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

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

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: casting shakeout operation
Parameter: Lead, Manganese, and Total Metal HAP emissions
Limit:

(a) Total emissions of lead from the casting shakeout operation for all mold lines shall not exceed 0.26 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(b) Total emissions of manganese from the casting shakeout operation for all mold lines shall not exceed 0.80 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;

(c) Total emissions of any combination of metal HAPs from the casting shakeout operation for all mold lines shall not exceed 1.30 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.1.10(c), (f), and (i). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

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

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

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

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name:		Bremen Casting, Inc.
Source Address:		500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address:		P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.:		T099-17583-00001
Facility:		Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations
Parameter:		Toluene, Phenol, Benzene, and Total Organic HAP emissions
Limit:	(a)	The total emissions of toluene from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
	(b)	The total emissions of phenol from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
	(c)	The total emissions of benzene from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
	(d)	The total emissions of any combination of organic HAPs from the Pouring/Casting Cooling operations identified as Hunter #1, Hunter #2, Hunter #5, Hunter #6, and Sinto #1, and the casting shakeout operations for all mold lines shall not exceed 4.79 ton per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.1.11. Please attach supporting calculations and data used for determining HAP emissions reported.

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

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

YEAR:

Month	Column 1a	Column 1b	Column 1c	Column 1d	Column 2a	Column 2b	Column 2c	Column 2d
	Toluene Emissions This Month (tons)	Phenol Emissions This Month (tons)	Benzene Emissions This Month (tons)	Total HAP Emissions This Month (tons)	Toluene Emissions Previous 11 Months (tons)	Phenol Emissions Previous 11 Months (tons)	Benzene Emissions Previous 11 Months (tons)	Total HAP Emissions Previous 11 Months (tons)

Month	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c	Column 1d + Column 2d
	12 Month Total Toluene Emissions (tons)	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total HAP Emissions (tons)

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: shot blast machines Shot #1 - #3
Parameter: Lead, Manganese, and Total Metal HAP emissions
Limit:
(a) Emissions of lead from the shot blast machines Shot #1 - #3 shall not exceed 0.58 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the shot blast machines Shot #1 - #3 shall not exceed 1.78 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emission of any combination of metal HAPs from the shot blast machines Shot #1 - #3 shall not exceed 2.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limits shall be determined using the equations in condition D.3.6(a), (c), and (e). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

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

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

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

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001
Facility: shot blast machines Shot #1 - #3
Parameter: Lead, Manganese, and Total Metal HAP emissions
Limit:
(a) Emissions of lead from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 0.58 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
(b) Emissions of manganese from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 1.78 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
(c) Emission of any combination of metal HAPs from the grinding/finishing operation Grinder #1 - #9 and Grinder Auto Foxall #10 shall not exceed 2.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits shall be determined using the equations in condition D.3.6(b), (d), and (f). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR:

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

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

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

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Bremen Casting, Inc.
Source Address: 500 North Baltimore Street, Bremen, Indiana 46506
Mailing Address: P.O. Box 129, Bremen, Indiana 46506
Part 70 Permit No.: T099-17583-00001

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By:

Title/Position:

Date:

Phone:

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Administrative Amendment

Source Description and Location

Source Name:	Bremen Castings, Inc.
Source Location:	500 North Baltimore Street, Bremen, IN 46506
County:	Marshall
SIC Code:	3321
Operation Permit No.:	T 099-17583-00001
Operation Permit Issuance Date:	April 20, 2007
Amendment No.:	099-25193-00001
Permit Reviewer:	TE/ERG

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T099-17583-00001 on April 20, 2007. The source has since received the following approval:

(a) Minor Source Modification No. MSM099-24837-00001, issued on July 16, 2007.

County Attainment Status

The source is located in Marshall County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

Note: On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(a) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Marshall 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) Marshall County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.

(c) Marshall County has been classified as attainment or unclassifiable for all other criteria pollutants. 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 secondary metal production plant, it is considered to be in 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.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (tons/year)
PM	Greater than 100
PM10	Greater than 100
SO_2	Less than 100
VOC	Greater than 100
CO	Greater than 100
NO_x	Less than 100

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) These emissions are based upon the Technical Support Document (TSD) for Part 70 Operating Permit T099-17583-00001, issued on April 20, 2007 and the TSD for MSM099-24837-00001, issued on July 16, 2007.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Lead	Less than 10
Manganese	Less than 10
Antimony	Less than 10
Hexane	Less than 10
Phenol	Less than 10
Benzene	Less than 10
Toluene	Less than 10
Xylene	Less than 10
TOTAL	Less than 25

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM2.5	26.0
PM10	31.0
SO_2	2.0
VOC	20.0
CO	91.0
NO_x	5.0
HAP (Lead)	0.31

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Bremen Castings, Inc. on August 24, 2007, relating to the addition of the tundish ladle inoculation method for magnesium treatment of molten metal as an alternative to their existing Flowtret inoculation method for magnesium treatment of molten metal. The following is a list of the modified emission unit:

(a) One (1) electric induction furnace (EIF) melting operation consisting of the following:

(1) two (2) 4.0 tons per hour electric induction furnaces, identified as #1 and #2, each installed in 1995, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(2) One (1) inoculation operation for magnesium treatment of the molten metal in the furnaces to produce ductile iron **using either the Flowtret method of magnesium treatment or as an alternative, the tundish ladle method of magnesium treatment. This operation was modified in 2007 to include the tundish ladle method of magnesium treatment consisting of tundish ladles where magnesium treatment occurs**; and

(3) ladles for pouring molten metal into the molds.

This modification to the inoculation operation does not result in any increase in the metal throughput capacity of the source; therefore, there will be no change in the potential to emit of the inoculation operation or any other emissions increases as a result of this modification. The source will continue to comply with the existing emission limits on the inoculation operation.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	PTE Before Modification (tons/year)	PTE After Modification (tons/year)	Net Difference (tons/year)
PM	63.07	63.07	0.0
PM10	63.07	63.07	0.0
SO_2	0.0	0.0	0.0
VOC	0.0	0.0	0.0
CO	0.0	0.0	0.0
NO_X	0.0	0.0	0.0
HAPs	0.0	0.0	0.0

This source modification is subject to 326 IAC 2-7-11. The modification will be incorporated into the Part 70 Operating Permit through an administrative amendment issued pursuant to 326 IAC 2-7-11(7) because it revises descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

Permit Level Determination – PSD

This modification to an existing major stationary source is not major because there is no emissions increase as a result of this modification. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed amendment.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed amendment.

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified 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 modified emission unit involved:

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)
Inoculation - PM	Baghouse DC-2	Y	63.07	1.89	100	N	N
Inoculation – PM10	Baghouse DC-2	Y	63.07	1.89	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to the modified unit as part of this administrative amendment.

State Rule Applicability Determination

There are no new state rules applicable to the source due to the modification.

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.

There are no compliance determination or compliance monitoring requirements applicable to this amendment.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T099-17583-00001. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1. Section A.2(c) is revised to include the revised description for the inoculation operation as follows:

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:

…

(c) One (1) electric induction furnace (EIF) melting operation consisting of the following:

(1) two (2) 4.0 tons per hour electric induction furnaces, identified as #1 and #2, each installed in 1995, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(2) One (1) inoculation operation for magnesium treatment of the molten metal in the furnaces to produce ductile iron **using either the Flowtret method of magnesium treatment or as an alternative, the tundish ladle method of magnesium treatment. This operation was modified in 2007 to include the tundish ladle method of magnesium treatment consisting of tundish ladles where magnesium treatment occurs**; and

(3) ladles for pouring molten metal into the molds.

…

SECTION D.1 FACILITY OPERATION CONDITIONS

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

…

(c) One (1) electric induction furnace (EIF) melting operation consisting of the following:

(1) two (2) 4.0 tons per hour electric induction furnaces, identified as #1 and #2, each installed in 1995, with particulate matter emissions controlled by a baghouse, identified as DC-2;

(2) One (1) inoculation operation for magnesium treatment of the molten metal in the furnaces to produce ductile iron **using either the Flowtret method of magnesium treatment or as an alternative, the tundish ladle method of magnesium treatment. This operation was modified in 2007 to include the tundish ladle method of magnesium treatment consisting of tundish ladles where magnesium treatment occurs**; and

(3) ladles for pouring molten metal into the molds.

…

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

2. Condition C.4 has been revised to remove the statement that 326 IAC 9-1-2 is not federally enforceable. 326 IAC 9-1 is now SIP approved and is therefore federally enforceable.

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

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

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Administrative Amendment No. 099-25193-00001. The staff recommends to the Commissioner that this Part 70 Administrative Amendment be approved.