



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 25, 2009

RE: Warsaw Foundry Company, Inc. / 085-25528-00006

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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.dot12/03/07



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Mr. John Petro
Warsaw Foundry Company, Inc.
1212 North Detroit Street
Warsaw, Indiana 46580

March 25, 2009

Re: 085-25528-00006
Second Significant Permit Revision to
F085-14520-00006

Dear Mr. Petro:

The Warsaw Foundry Company, Inc. was issued Federally Enforceable State Operating Permit (FESOP), No. 085-14520-00006, on October 20, 2006, for a stationary gray and ductile iron foundry. A letter, requesting an Administrative Review for the SPR F085-24317-00006 and a Stay of Effectiveness for permit conditions requiring the Warsaw Foundry Company, Inc. to demonstrate compliance by performing HAP testing was received on November 13, 2007. Warsaw Foundry Company submitted additional information to IDEM that facilitated a settlement of the November 13, 2007 petition for review and issuance of this second Significant Permit Revision. The resolution of the issue of concern was agreed upon January 21, 2009. Pursuant to the provisions of 326 IAC 2-6.1-6, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-6.1-6(i). Pursuant to the provisions of 326 IAC 2-6.1-6, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-6.1-6, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please find the enclosed copy of the revised entire permit for a stationary gray and ductile iron foundry. This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Sandra Carr, of my staff, at 317-234-5372 or 1-800-451-6027, and ask for extension 4-5372.

Sincerely,

Iryn Callung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

IC/sec

cc: File - Kosciusko County

U.S. EPA, Region V
Kosciusko County Health Department
Air Compliance Section
IDEM Northern Regional Office
Compliance Data Section
Technical Support and Modeling
Permits Administrative and Development
Billing, Licensing and Training Section
Office of Legal Counsel - April Lashbrook



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FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR QUALITY

Warsaw Foundry Company, Inc.
1212 North Detroit Street
Warsaw, Indiana 46580

(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. 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

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 2-8 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.

Table with 2 columns: Operation Permit No.: F 085-14520-00006; Issuance Date: October 20, 2006; Expiration Date: October 20, 2011; Issued by: Nisha Sizemore, Chief Permits Branch, Office of Air Quality.

First Significant Permit Revision No.: F 085-24317-00006 issued on October 23, 2007.

Table with 2 columns: Second Significant Permit Revision No.: F 085-25528-00006; Affected Pages: Entire Permit; Issuance Date: March 25, 2009; Expiration Date: October 20, 2011; Issued by: Iryn Calilung, Section Chief, Permits Branch, Office of Air Quality.

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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 2-8-3(b)]

The Permittee owns and operates a stationary gray and ductile iron foundry.

Source Address:	1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address:	P.O. Box 227, Warsaw, Indiana 46581
General Source Phone Number:	574-267-8772
SIC Code:	3321
County Location	Kosciusko
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor 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 2-8-3(c)(3)]

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

- (a) One (1) charge handling operation, identified as EU1, installed prior to 1960, capacity: 1.6 tons of metal per hour.
- (b) One (1) cupola, identified as EU2, installed prior to 1960, equipped with a natural gas-fired afterburner rated at 1.0 million British thermal units per hour, and a venturi scrubber, exhausted through Stack C1, capacity: 5.0 tons of metal per hour. This unit will serve as a back-up unit.
- (c) One (1) electric induction furnace, identified as EU3, installed in November 2000, capacity: 1.6 tons of metal per hour.
- (d) One (1) magnesium treatment process, installed in 2000, capacity: 1.5 tons of metal per hour.
- (e) One (1) inoculation process, identified as inoculation process, installed in 1960, capacity: 1.6 tons of metal per hour.
- (f) One (1) pouring/casting operation, identified as EU4, installed prior to 1979, with emissions uncontrolled, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (g) One (1) castings cooling operation, identified as EU5A and EU5B, installed prior to 1979, with south area EU5A controlled by Mold/Dump Baghouse (MDBH) and exhausted through Stack B4, and east area EU5B controlled by Main Baghouse (MBH) and exhausted through Stack B3, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (h) One (1) castings shakeout operation, identified as EU6, installed prior to 1979, equipped with a baghouse, identified as Main Baghouse (MBH), installed in 1991, exhausted through Stack B3, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (i) One (1) cleaning and finishing operation, identified as EU8A and EU8B, installed prior to 1979, consisting of the following:

- (1) One (1) grinding area (EU8A), consisting of two (2) single station and two (2) double station grinding machines, equipped with a baghouse, identified as Grinding Baghouse (GBH), exhausted through Stack B1, capacity: 1.6 tons of metal per hour.
- (2) One (1) Wheelabrator shot blast unit (EU8B), equipped with a baghouse, identified as Wheelabrator Baghouse (WBH), exhausted through Stack B2, capacity: 1.6 tons of metal per hour.
- (j) One (1) sand handling operation, identified as EU9, installed prior to 1979, equipped with a baghouse, identified as Main Baghouse (MBH), installed in 1991, exhausted through Stack B3, capacity: 9.6 tons of sand per hour.
- (k) One (1) natural gas-fired oil core oven, identified as EU10, installed in 1946, exhausted through Stack O1, rated at 0.5 million British thermal units per hour, capacity: 0.75 tons of sand per hour.
- (l) One (1) core wash and mold parting, identified as EU12, installed prior to 1987, capacity: 0.85 tons of cores per hour, 0.178 pounds of core wash per hour, 0.226 pounds of thinner per hour, and 2.76 pounds of liquid parting per hour.
- (m) One (1) core making operation, consisting of fifteen (15) shell core machines, collectively identified as EU11, capacity: 0.75 tons of sand per hour, total, consisting of the following:
 - (1) Three (3) U180 Shalco machines, installed in 1998, capacity: 200 pounds per hour, each.
 - (2) One (1) U150 Shalco machine, installed in 1998, capacity: 100 pounds per hour.
 - (3) Three (3) Dependable 100 machines, installed between 1960 and 1980, capacity: 100 pounds per hour, each.
 - (4) Five (5) Dependable 200 machines, installed between 1960 and 1980, capacity: 150 pounds per hour, each.
 - (5) One (1) Dependable 300 machines, installed between 1960 and 1980, capacity: 200 pounds per hour.
 - (6) Two (2) Redford HP43 machines, installed between 1960 and 1980, capacity: 200 pounds per hour, each.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(l)]

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour with a total rating of 1.20 million British thermal units per hour consisting of:

Two (2) ladle heating torches, identified as EU13, installed prior to 1987, capacity: 0.60 million British thermal units per hour, total.
- (b) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]

- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (e) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (f) Paved and unpaved roads and parking lots with public access.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F085-14520-00006, 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, 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 2-8-6]

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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (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 an "authorized individual" 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) an "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

- (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 2-8-4(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.12 Emergency Provisions [326 IAC 2-8-12]

- (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 except as provided in 326 IAC 2-8-12.
- (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 notifies IDEM,

OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northern Regional Office: Phone: (800) 753-5519 (toll free within Indiana)

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

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

or

Northern Regional Office
300 N. Michigan Street, Suite 450
South Bend, Indiana 46601-1253

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 2-8-4(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-3(c)(6) 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 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) All terms and conditions of permits established prior to F085-14520-00006 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit;
and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 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 Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(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) and 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 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

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

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

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

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

C.7 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.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any

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

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.12 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.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

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

The ERP does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [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.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (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.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.18 General Record Keeping Requirements.[326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) 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 2-8-4(10)]: Melting, pouring operations

- (a) One (1) charge handling operation, identified as EU1, installed prior to 1960, capacity: 1.6 tons of metal per hour.
- (b) One (1) cupola, identified as EU2, installed prior to 1960, equipped with a natural gas-fired afterburner rated at 1.0 million British thermal units per hour, and a venturi scrubber, exhausted through Stack C1, capacity: 5.0 tons of metal per hour.
- (c) One (1) electric induction furnace, identified as EU3, installed in November 2000, capacity: 1.6 tons of metal per hour.
- (d) One (1) magnesium treatment process, installed in 2000, capacity: 1.5 tons of metal per hour.
- (e) One (1) inoculation process, identified as inoculation process, installed in 1960, capacity: 1.6 tons of metal per hour.

(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 2-8-4(1)]

D.1.1 Metal Throughput Limit [326 IAC 2-8-4]

The total combined metal throughput to the one (1) cupola and the one (1) electric induction furnace shall be limited to less than 11,300 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 are not applicable.

D.1.2 Particulate [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 charge handling operation (EU1), shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the one (1) electric induction furnace (EU3) shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.
- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the magnesium treatment process shall not exceed 5.38 pounds per hour when operating at a process weight rate of 1.5 tons per hour.
- (d) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the inoculation process shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.

The above pounds per hour limitations were calculated with the following equation:

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

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

D.1.3 Particulate [326 IAC 11-1]

Pursuant to 326 IAC 11-1 (Existing Foundries), the particulate emission rate from the one (1) cupola shall not exceed 16.65 pounds per hour when operating at a process weight rate of 5.0 tons per hour.

D.1.4 Particulate Matter (PM₁₀) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) The PM₁₀ emission rate from the one (1) charge handling operation (EU1) shall not exceed 0.36 pounds per ton of metal melted.
- (b) The PM₁₀ emission rate from the one (1) cupola (EU2) after controls shall not exceed 12.4 pounds per ton of metal melted.
- (c) The PM₁₀ emission rate from the one (1) electric induction furnace (EU3) shall not exceed 0.86 pounds per ton of metal melted.
- (d) The PM₁₀ emission rate from the one (1) magnesium treatment process shall not exceed 1.80 pounds per ton of metal melted.
- (e) The PM₁₀ emission rate from the one (1) inoculation process shall not exceed 4.00 pounds per ton of metal melted.

Compliance with these limits, in conjunction with the other PM10 limits included in this permit, limit the source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.1.5 Particulate Matter (PM) [326 IAC 2-2]

- (a) The PM emission rate from the one (1) charge handling operation (EU1) shall not exceed 0.60 pounds per ton of metal melted.
- (b) The PM emission rate from the one (1) cupola (EU2) after controls shall not exceed 13.8 pounds per ton of metal melted.
- (c) The PM emission rate from the one (1) electric induction furnace (EU3) shall not exceed 0.90 pounds per ton of metal melted.
- (d) The PM emission rate from the one (1) magnesium treatment process shall not exceed 1.80 pounds per ton of metal melted.
- (e) The PM emission rate from the one (1) inoculation process shall not exceed 4.00 pounds per ton of metal melted.

Compliance with these limits, in conjunction with the other PM limits included in this permit, limit the source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.1.6 Carbon Monoxide (CO) [326 IAC 2-8-4] [326 IAC 2-2]

The CO emission rate from the one (1) cupola (EU2) after controls shall not exceed 10.87 pounds per ton of metal melted. Compliance with this limit, in conjunction with the other CO limits included in this permit, limit source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.1.7 Metallic HAP Minor Limits [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Emissions of lead emission from the cupola (EU2) shall not exceed 6.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

- (b) Emissions of manganese from the cupola (EU2) shall not exceed 2.42 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 8.87 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (d) Emissions of lead from the electric induction furnace shall not exceed 0.70 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (e) Emissions of manganese from the electric induction furnace shall not exceed 0.20 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 electric induction furnace shall not exceed 0.92 ton 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. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) are not applicable.

- (g) The Permittee shall operate the cupola afterburner such that the 15-minute average combustion zone temperature does not fall below 1,400 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.1.8 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) cupola, the cupola charge door, and any control devices.

Compliance Determination Requirements

D.1.9 Emission Controls

In order to comply with Conditions D.1.3, D.1.4(b), D.1.5(b), D.1.6, and D.1.7(a), D.1.7(b), and D.1.7(c), the afterburner and wet scrubber for PM, PM₁₀, CO and lead control shall be in operation and control emissions from the one (1) cupola at all times that the one (1) cupola is in operation.

D.1.10 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 180 days after the first day of restarting operation of the cupola, in order to demonstrate compliance with Conditions D.1.3, D.1.4(b), D.1.5(b), D.1.6, D.1.7(a), D.1.7(b), and D.1.7(c), the Permittee shall perform CO, PM, PM₁₀, lead, manganese, and total metal HAPs testing utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every two and one-half (2.5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.11 Metal HAP Emissions

Compliance with the HAP limits in condition D.1.7 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} = 1.10 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 electric induction furnace (tons/yr) = EF_{FPb} (lb/ton) x M_F (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{FPb} = 0.10 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 electric induction furnace and (tons per twelve (12) consecutive month period)

- (c) 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} = 0.4278 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)

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

Where:

EF_{FMn} = 0.0279 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 electric induction furnace (tons per twelve (12) consecutive month period)

- (e) 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} = 1.57 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)

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

Where:

EF_{FTM} = 0.13 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 electric induction furnace (tons per twelve (12) consecutive month period)

- (g) Upon IDEM approval of lead and manganese compliance stack test results on the cupola and electric induction furnace, 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.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the cupola stack exhaust (Stack C1) and the cupola charge door shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.13 Parametric Monitoring

The Permittee shall record the flow rate and the pressure drop across the scrubber at least once per day when the one (1) cupola is in operation. When for any one (1) reading, the pressure drop across the scrubber is less than the minimum of 16.0 inches of water or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one (1) reading, the flow rate for the scrubbing liquor is less than the minimum of 198 gallons of water per minute or a flow rate established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading or a flow rate less than the above mentioned minimums 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 flow rate and pressure drop shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

D.1.14 Failure Detection

In the event that a scrubber failure has been observed:

If failure is indicated by a significant drop in the scrubber's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if scrubber failure is determined by other means, such as flow rates, air infiltration, leaks, or pH, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.1.15 Afterburner Temperature

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on the afterburner for measuring operating temperature. For the purpose of this condition, continuously means no less than once per minute. The output of this system shall be recorded as an hourly 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 hourly average temperature of the afterburner is below 1400°F. An hourly average temperature that is below 1400°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 hourly average temperature from the most recent valid stack test that demonstrates compliance with limits in Conditions D.1.3, D.1.4(b), D.1.5(b), D.1.6 and D.1.7, 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 hourly average temperature of the afterburner is below the hourly average temperature as observed during the compliant stack test. An hourly average temperature that is below the hourly 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.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.16 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain monthly records of the amount of metal melted in the one (1) cupola and the amount of metal melted in the one (1) electric induction furnace.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of the following:
 - (1) tons of metal throughput to the cupola and electric induction furnace for each month;
 - (2) Metallic HAP stack test results for the cupola and electric induction furnace as applicable;
 - (3) Metallic HAP emission calculations performed using the equations in condition D.1.11; and
 - (4) Metallic HAP emissions in tons per year.
- (c) To document compliance with Condition D.1.12, the Permittee shall maintain records of once per day visible emission notations of the cupola stack exhaust (Stack C1) and the cupola charge door. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (d) To document compliance with Condition D.1.13, the Permittee shall maintain once per day records of the pressure drop and flow rate. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).

- (e) To document compliance with Condition D.1.15, the Permittee shall maintain the continuous temperature records (reduced to an hourly average basis) for the afterburner and the hourly average temperature used to demonstrate compliance during the most recent compliant stack test.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.17 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Casting, cooling, sand and finishing

- (f) One (1) pouring/casting operation, identified as EU4, installed prior to 1979, with emissions uncontrolled, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (g) One (1) castings cooling operation, identified as EU5A and EU5B, installed prior to 1979, with south area EU5A controlled by Mold/Dump Baghouse (MDBH) and exhausted through Stack B4, and east area EU5B controlled by Main Baghouse (MBH) and exhausted through Stack B3, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (h) One (1) castings shakeout operation, identified as EU6, installed prior to 1979, equipped with a baghouse, identified as Main Baghouse (MBH), installed in 1991, exhausted through Stack B3, capacity: 1.6 tons of metal per hour and 9.6 tons of sand per hour.
- (i) One (1) cleaning and finishing operation, identified as EU8A and EU8B, installed prior to 1979, consisting of the following:
 - (1) One (1) grinding area (EU8A), consisting of two (2) single station and two (2) double station grinding machines, equipped with a baghouse, identified as Grinding Baghouse (GBH), exhausted through Stack B1, capacity: 1.6 tons of metal per hour.
 - (2) One (1) Wheelabrator shot blast unit (EU8B), equipped with a baghouse, identified as Wheelabrator Baghouse (WBH), exhausted through Stack B2, capacity: 1.6 tons of metal per hour.
- (j) One (1) sand handling operation, identified as EU9, installed prior to 1979, equipped with a baghouse, identified as Main Baghouse (MBH), installed in 1991, exhausted through Stack B3, capacity: 9.6 tons of sand per hour.

(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 2-8-4(1)]

D.2.1 Particulate [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 grinding area (EU8A), exhausting to Stack B1, shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Wheelabrator shot blast (EU8B), exhausting to Stack B2, shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.
- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the east casting cooling operation (EU5B), and the castings shakeout process (EU6) when operating at a process weight rate of 1.6 tons per hour, and the sand handling system (EU9), when operating at a process weight rate of 9.6 tons per hour, all exhausting to Stack B3, shall not exceed a total of 20.6 pounds per hour when operating at a process weight rate of 11.2 tons per hour.
- (d) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the south casting cooling operation

(EU5A), exhausting to Stack B4, shall not exceed a total of 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.

- (e) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the pouring and casting operation (EU4) shall not exceed 5.61 pounds per hour when operating at a process weight rate of 1.6 tons per hour.

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

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

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

D.2.2 Particulate Matter (PM₁₀) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) The PM₁₀ emission rate from the grinding area (EU8A), exhausting to Stack B1, after controls shall not exceed 0.05 pounds per ton of metal melted.
- (b) The PM₁₀ emission rate from the Wheelabrator shot blast (EU8B), exhausting to Stack B2, after controls shall not exceed 0.05 pounds per ton of metal melted.
- (c) The PM₁₀ emission rate from Stack B3 after controls shall not exceed 1.24 pounds per hour.
- (d) The PM₁₀ emission rate from Stack B4 after controls shall not exceed 0.59 pounds per hour.
- (e) The PM₁₀ emission rate from pouring/casting operation shall not exceed 2.06 pounds per hour.

Compliance with these limits, in conjunction with the other PM₁₀ limits included in this permit, limit the source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.2.3 Particulate Matter (PM) [326 IAC 2-2]

- (a) The PM emission rate from the grinding area (EU8A), exhausting to Stack B1, after controls shall not exceed 0.51 pounds per ton of metal melted.
- (b) The PM emission rate from the Wheelabrator shot blast (EU8B), exhausting to Stack B2, after controls shall not exceed 0.51 pounds per ton of metal melted.
- (c) The PM emission rate from Stack B3 after controls shall not exceed 4.32 pounds per hour.
- (d) The PM emission rate from Stack B4 after controls shall not exceed 1.24 pounds per hour.
- (e) The PM emission rate from pouring/casting operation shall not exceed 4.20 pounds per hour.

Compliance with these limits, in conjunction with the other PM limits included in this permit, limit the source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.2.4 Carbon Monoxide (CO) [326 IAC 2-8-4] [326 IAC 2-2]

The CO emission rate from the one (1) pouring/casting operation (EU4), the one (1) castings cooling operation (EU5A and EU5B) and the one (1) castings shakeout operation (EU6), exhausting to Stacks B3 and B4, shall not exceed a total of 6.0 pounds per ton of metal melted. Compliance with this limit, in conjunction with the other CO limits included in this permit, limit source-wide emissions to less than 100 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Program) not applicable.

D.2.5 Organic HAP Minor Limits [326 IAC 2-8-4] [326 IAC 2-2]

The total emissions of any combination of organic HAPs from the pouring/casting cooling operations shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

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.2.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.2.7 Particulate Matter (PM)

In order to comply with Conditions D.2.1, D.2.2 and D.2.3:

- (a) The Main Baghouse (MBH) exhausting to stack B3, for PM and PM₁₀ control shall be in operation and control emissions from the east castings cooling (EU5B), the casting shakeout (EU6) and the sand handling operation (EU9) at all times that any of the facilities is in operation.
- (b) The Mold/Dump Baghouse (MDBH) exhausting to stack B4, for PM and PM₁₀ control shall be in operation and control emissions from the south castings cooling operation (EU5A) at all times that the facility is in operation.
- (c) The Grinding Baghouse (GBH) exhausting to stack B1, for PM and PM₁₀ control shall be in operation and control emissions from the grinding area (EU8A) at all times that the facility is in operation.
- (d) The Wheelabrator Baghouse (WBH) exhausting to stack B2, for PM and PM₁₀ control shall be in operation and control emissions from the Wheelabrator shot blast (EU8B) at all times that the facility is in operation.
- (e) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.2.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 180 days after issuance of permit No. F085-14520-00006, in order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM₁₀ testing of the castings cooling operation (EU5A and EU5B), the castings shakeout process (EU6) and the sand handling process (EU9), utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.9 Organic HAP Emissions

Compliance with the HAP limit in condition D.2.5 shall be demonstrated using the following equation:

Total organic HAPs emissions from the Pouring/Casting Cooling operations (EU4) = EF_{PCCTO} (lb/ton) x M_{PCC} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{PCCTO} = total organic HAPs emissions from Pouring/Casting Cooling operations (0.64 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{PCC} = total metal throughput to the Pouring/Casting Cooling operations (tons per twelve (12) consecutive month period)

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.10 Visible Emissions Notations

- (a) Visible emission notations of the castings cooling operation, the castings shakeout operation, the cleaning and finishing operations, and the sand handling system stack exhausts (Stacks B1, B2, B3 and B4) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.11 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the Main Baghouse (MBH) used in conjunction with the east castings cooling operation, the castings shakeout process and the sand handling process, at least once per day when any of the processes are in operation. When for any one reading, the pressure drop across the MBH is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the Grinding Baghouse (GBH) used in conjunction with the cleaning and finishing operations, at least once per day when the cleaning and finishing operations are in operation. When for any one reading, the pressure drop across the GBH is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances.

A pressure reading that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The Permittee shall record the pressure drop across the Wheelabrator Baghouse (WBH) used in conjunction with the cleaning and finishing operations, at least once per day when the cleaning and finishing operations are in operation. When for any one reading, the pressure drop across the WBH is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (d) The Permittee shall record the pressure drop across the Mold/Dump Baghouse (MDBH) used in conjunction with the south castings cooling operation, at least once per day when the process is in operation. When for any one reading, the pressure drop across the MDBH is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.12 Broken or Failed 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 or dust traces.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.13 Record Keeping Requirements

- (a) To document compliance with Condition D.2.5, the Permittee shall maintain records of the following:
 - (1) tons of metal throughput to each of the pouring/casting cooling operation for each month;
 - (2) Organic HAP emission calculations performed using the equations in condition D.2.9; and
 - (3) Organic HAP emissions in tons per year.

- (b) To document compliance with Condition D.2.10, the Permittee shall maintain daily records of visible emission notations for the castings cooling operation, the castings shakeout operation, the cleaning and finishing operations, and the sand handling system stack exhausts (Stacks B1, B2, B3 and B4) during normal daylight operations. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.2.11, the Permittee shall maintain records once per day of the pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.9 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Coremaking operations

- (i) One (1) natural gas-fired oil core oven, identified as EU10, installed in 1946, exhausted through Stack O1, rated at 0.5 million British thermal units per hour, capacity: 0.75 tons of sand per hour.
- (j) One (1) core wash and mold parting, identified as EU12, installed prior to 1987, capacity: 0.85 tons of cores per hour, 0.178 pounds of core wash per hour, 0.226 pounds of thinner per hour, and 2.76 pounds of liquid parting per hour.
- (m) One (1) core making operation, consisting of fifteen (15) shell core machines, collectively identified as EU11, capacity: 0.75 tons of sand per hour, total, consisting of the following:
 - (1) Three (3) U180 Shalco machines, installed in 1998, capacity: 200 pounds per hour, each.
 - (2) One (1) U150 Shalco machine, installed in 1998, capacity: 100 pounds per hour.
 - (3) Three (3) Dependable 100 machines, installed between 1960 and 1980, capacity: 100 pounds per hour, each.
 - (4) Five (5) Dependable 200 machines, installed between 1960 and 1980, capacity: 150 pounds per hour, each.
 - (5) One (1) Dependable 300 machines, installed between 1960 and 1980, capacity: 200 pounds per hour.
 - (6) Two (2) Redford HP43 machines, installed between 1960 and 1980, capacity: 200 pounds per hour, each.

(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 2-8-4(1)]

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the oil core oven (EU10), shall not exceed 3.38 pounds per hour when operating at a process weight rate of 0.75 tons per hour.

This pound per hour limitation was calculated with the following equation:

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

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

D.3.2 Organic HAP Minor Limits [326 IAC 2-8-4] [326 IAC 2-2]

- (a) The total emissions of toluene from the core making operation shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) The total emissions of phenol from the core making operation shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

- (c) The total emissions of benzene from the core making operation shall not exceed 4.50 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 core making operation shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

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.

Compliance Determination Requirements

D.3.3 Organic HAP Emissions

Compliance with the HAP limits in condition D.3.2 shall be demonstrated using the following equations:

- (a) Toluene emissions from the core making operation (EU11) = EF_{CMT} (lb/ton) x M_{CM} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{CMT} = toluene emissions from core making (1.37 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{CM} = total metal throughput to the core making (tons per twelve (12) consecutive month period)

- (b) Phenol emissions from the core making operation (EU11) = EF_{CMP} (lb/ton) x M_{CM} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{CMP} = phenol emissions from core making (1.37 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{CM} = total metal throughput to the core making (tons per twelve (12) consecutive month period)

- (c) Benzene emissions from the core making operation (EU11) = EF_{CMB} (lb/ton) x M_{CM} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{CMB} = benzene emissions from core making (1.37 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test)

M_{CM} = total metal throughput to the core making (tons per twelve (12) consecutive month period)

- (d) Total organic HAPs emissions the core making operation (EU11) = EF_{CMTTO} (lb/ton) x M_{CM} (tons per twelve (12) consecutive month period) x (1 ton / 2000 pounds)

Where:

EF_{CMTTO} = total organic HAPs emissions from core making (1.37 pound per ton of metal throughput or an emission factor determined from the most recent compliance stack test).

M_{CM} = total metal throughput to the core making (tons per twelve (12) consecutive month period)

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.4 Record Keeping Requirements

- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records of the following:
- (1) tons of metal throughput to each of the core making operation for each month;
 - (2) Organic HAP emission calculations performed using the equations in condition D.3.3; and
 - (3) Organic HAP emissions in tons per year.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour with a total rating of 1.20 million British thermal units per hour consisting of:

Two (2) ladle heating torches, identified as EU13, installed prior to 1987, capacity: 0.60 million British thermal units per hour, total.
- (b) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (e) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (f) Paved and unpaved roads and parking lots with public access.

(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 2-8-4(1)]

D.4.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable PM emission rate from the insignificant brazing equipment, cutting torches, soldering equipment and welding equipment shall not exceed the allowable PM emission rate based on the following equation:

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

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

or

if the process weight rate is less than one hundred pounds per hour, then the allowable emission rate shall be 0.551 pounds per hour.

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

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

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for a cold cleaner degreaser without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for a cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:

- (1) Close the cover whenever articles are not being handled in the degreaser.
- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Warsaw Foundry Company, Inc.
Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
FESOP No.: F 085-14520-00006

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Warsaw Foundry Company, Inc.
Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
FESOP No.: F 085-14520-00006

This form consists of 2 pages

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<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">▪ The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and▪ The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Warsaw Foundry Company, Inc.
Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
FESOP No.: F 085-14520-00006
Facilities: The one (1) cupola and the one (1) electric induction furnace
Parameter: Total amount of metal melted
Limit: Less than 11,300 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR:

Month	Tons of metal melted	Tons of metal melted	Tons of metal melted
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Warsaw Foundry Company, Inc.
 Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
 Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
 FESOP No.: F 085-14520-00006
 Facility: Cupola
 Parameter: Lead, Manganese, and Total Metal HAP emissions
 Limit: (a) Emissions of lead emission from the cupola (EU2) shall not exceed 6.22 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
 (b) Emissions of manganese from the cupola (EU2) shall not exceed 2.42 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 8.87 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.1.11(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 Month (tons)	Manganese Emissions Previous 11 Month (tons)	Total HAP Emissions Previous 11 Month (tons)

This FESOP Quarterly Report consists of 2 pages.

This FESOP 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 Manganese Emissions (tons)	12 Month Total HAPs 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 and ENFORCEMENT BRANCH**

FESOP Quarterly Report

Source Name: Warsaw Foundry Company, Inc.
 Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
 Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
 FESOP No.: F 085-14520-00006
 Facility: Electric Induction Furnace
 Parameter: Lead, Manganese, and Total Metal HAP emissions
 Limit: (a) Emissions of lead from the electric induction furnace shall not exceed 0.70 ton per twelve (12) consecutive month period, with compliance determined at the end of each month;
 (b) Emissions of manganese from the electric induction furnace shall not exceed 0.20 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 electric induction furnace shall not exceed 0.92 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(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 Month (tons)	Manganese Emissions Previous 11 Month (tons)	Total HAP Emissions Previous 11 Month (tons)

This FESOP Quarterly Report consists of 2 pages.

This FESOP 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 Manganese Emissions (tons)	12 Month Total HAPs 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 and ENFORCEMENT BRANCH**

FESOP Quarterly Report

Source Name: Warsaw Foundry Company, Inc.
Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
FESOP No.: F 085-14520-00006
Facility: Pouring/Casting Cooling
Parameter: Total Organic HAP emissions
Limit: The total emissions of any combination of organic HAPs from the pouring/casting cooling operations shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

Compliance with the above limit shall be determined using the equation in condition D.2.9. Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Total Organic HAP Emissions This Month (tons)	Total Organic HAP Emissions Previous 11 Month (tons)	12 Month Total Organic HAPs 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 and ENFORCEMENT BRANCH**

FESOP Quarterly Report

Source Name: Warsaw Foundry Company, Inc.
 Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
 Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
 FESOP No.: F 085-14520-00006
 Facility: Core Making
 Parameter: Toluene, Phenol, Benzene and Total Organic HAP emissions
 Limit: (a) The total emissions of toluene from the core making operation shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
 (b) The total emissions of phenol from the core making operation shall not exceed 4.50 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
 (c) The total emissions of benzene from the core making operation shall not exceed 4.50 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 core making operation shall not exceed 4.50 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.3.4(a), (b), (c), and (d). Please attach supporting calculations and data used for determining HAP emissions reported.

YEAR: _____

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

This FESOP Quarterly Report consists of 2 pages.

This FESOP Quarterly Report consists of 2 pages.

Month	Column 2c	Column 2d	Column 1a + Column 2a	Column 1b + Column 2b	Column 1c + Column 2c	Column 1d + Column 2d
	Benzene Emissions Previous 11 Month (tons)	Total Organic HAP Emissions Previous 11 Month (tons)	12 Month Total Toluene Emissions (tons)	12 Month Total Phenol Emissions (tons)	12 Month Total Benzene Emissions (tons)	12 Month Total Organic HAPs 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 and ENFORCEMENT BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Warsaw Foundry Company, Inc.
Source Address: 1212 North Detroit Street, Warsaw, Indiana 46580
Mailing Address: P.O. Box 227, Warsaw, Indiana 46581
FESOP No.: F 085-14520-00006

Months: _____ to _____ Year: _____

Page 1 of 2

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:	

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

Addendum to the Technical Support Document (ATSD) for a
Federally Enforceable State Operating Permit (FESOP)

Source Background and Description

Source Name:	Warsaw Foundry Company, Inc.
Source Location:	1212 North Detroit Street, Warsaw, Indiana 46580
County:	Kosciusko
SIC Code:	3321
FESOP Number:	085-25528-00006
Permit Reviewer:	Sandra Carr

On February 20, 2009, the Office of Air Quality (OAQ) had a notice published in the Times Union, Warsaw, Indiana, stating that Warsaw Foundry Company, Inc. had applied for a significant permit revision to their Federally Enforceable State Operating Permit (FESOP), issued on October 20, 2006. The notice also stated that the OAQ proposed to issue a significant permit revision for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

No comments were received during the public notice period.

Additional Changes

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. IDEM, OAQ has decided to make additional revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

- (a) The Northern Regional Office has changed locations. The Regional Office address has been updated.

**Northern Regional Office
300 N. Michigan Street, Suite 450
South Bend, Indiana 46601-1253**

- (b) IDEM has decided to reference 326 IAC 2 in Section B-Source Modification Requirements, rather than specific construction rule.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2-~~and 326 IAC 2-8-11.1.~~

- (c) Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

**Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251**

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

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sandra Carr at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5372) or toll free at 1-800-451-6027 extension (45372).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name:	Warsaw Foundry Company, Inc.
Source Location:	1212 North Detroit Street, Warsaw, Indiana 46580
County:	Kosciusko
SIC Code:	3321
Operation Permit No.:	085-14520-00006
Operation Permit Issuance Date:	October 20, 2006
Significant Permit Revision No.:	085-25528-00006
Permit Reviewer:	Sandra Carr

On November 13, 2007, the Office of Air Quality (OAQ) received a Petition for Administrative Review from the Warsaw Foundry Company, Inc. related to a FESOP Significant Permit Revision (SPR) for an existing stationary gray and ductile iron foundry.

Existing Approvals

This source was issued a FESOP (F085-14520-00006) on October 20, 2006. The source has since received a Significant Permit Revision No. 085-24317-00006, issued on October 23, 2007.

County Attainment Status

This source is located in Kosciusko County.

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

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

(Air Pollution Control Board; 326 IAC 1-4-44; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Kosciusko County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5}

emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.

- (c) Other Criteria Pollutants
Kosciusko County has been classified as attainment or unclassifiable in Indiana for NO_x, SO₂, VOC, CO, and PM₁₀. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a gray iron foundry it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

History

On November 13, 2007, the Warsaw Foundry Company, Inc. filed a petition for Administrative Review for the FESOP SPR No. 085-24317-00006 and a request for a Stay of Effectiveness for permit conditions requiring the Warsaw Foundry Company, Inc. to demonstrate compliance by performing HAP stack testing on the pouring and casting operation (EU04) and on the core making operation (EU11).

Warsaw Foundry, Inc. provided additional information to IDEM on March 20, 2008, regarding the pouring and casting operations and the core making operation, and the potential HAP emissions calculations associated with these operations. Thereafter, IDEM agreed that, given the information submitted by the Permittee, that the potential to emit HAP for these operations is substantially lower than the applicable threshold. Therefore, the testing specified in Conditions D.2.8(b) and D.3.3 will not be required as long as compliance with the HAP emission limits, established in Conditions D.2.5 and D.3.2, is demonstrated by maintaining records of the actual HAP emissions and quarterly reports are submitted to IDEM as verification.

Description of Proposed Revision

The FESOP is being revised through a Significant Permit Revision. This revision, which includes deleting the HAP stack testing conditions and deleting requirements to maintain records of the stack test results, is being performed pursuant to 326 IAC 2-8-11.1(f)(1), because it reduces the frequency of a monitoring condition.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

There are no emission calculations included for the permit revision to this source.

PTE of the Entire Source After Issuance of the FESOP Revision

The revision of FESOP SPR No. 085-24317-00006 will not change the source's potential to emit (PTE).

FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be limited to less

than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

Federal Rule Applicability Determination

There are no new federal rules included for the permit revision to this source.

State Rule Applicability Determination

There are no new state rules included for the permit revision to this source.

Compliance Determination, Monitoring and Testing Requirements

There are no additional testing or monitoring requirements related to this revision.

Proposed Changes

The following are the proposed changes due to the resolution of the appeal:

- (a) Condition D.2.8(b) has been deleted:

~~D.2.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

...

~~(b) Within 180 days after issuance of permit No. F085-14520-00006, in order to demonstrate compliance with Condition D.2.5, the Permittee shall perform total organic HAP testing of the pouring and casting operation (EU4) utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.~~

- (b) Condition D.2.13(a)(2) has been deleted and the remaining items were re-numbered.:

~~D.2.13 Record Keeping Requirements~~

~~(a) To document compliance with Condition D.2.5, the Permittee shall maintain records of the following:~~

...

~~(2) Organic HAP stack test results for the pouring/casting cooling operations as applicable;~~

~~(2)~~

~~(3)~~

- (c) Condition D.3.3 has been deleted and the remaining conditions re-numbered:

~~D.3.3 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~Within 180 days after issuance of permit No. F085-14520-00006, in order to demonstrate compliance with Conditions D.3.2, the Permittee shall perform toluene, phenol, benzene, and total organic HAP testing of the core making operation (EU11) utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.~~

~~D.3.3~~ Organic HAP Emissions

~~D.3.4~~ Record Keeping Requirements

~~D.3.5~~ Reporting Requirements

- (d) Condition D.3.4(a)(2) has been deleted and the remaining items were re-numbered.:

D.3.4 Record Keeping Requirements

- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records of the following:

...

- ~~(2) Organic HAP stack test results for the core making operation as applicable;~~

(2)

(3)

IDEM, OAQ has decided to make additional revisions to the permit to correct clerical errors as described below. The permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

- (e) A typographical error in Condition D.1.13 has been corrected.

D.1.13 Parametric Monitoring

The Permittee shall record the flow rate and the pressure drop across the scrubber at least once per day when the one (1) cupola is in operation. When for any one (1) reading, the pressure drop across the scrubber is less than the minimum of 16.0 inches of water or a ~~range~~ **minimum** established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances.

- (f) A formatting error in Condition D.2.8 has been corrected.

D.2.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

- ~~(a)~~ Within 180 days after issuance of permit No. F085-14520-00006, in order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM₁₀ testing of the castings cooling operation (EU5A and EU5B), the castings shakeout process (EU6) and the sand handling process (EU9), utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 180 days after issuance of permit No. F085-14520-00006, in order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM₁₀ testing of the castings cooling operation (EU5A and EU5B), the castings shakeout process (EU6) and the sand handling process (EU9), utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

- (g) A typographical error in Condition D.3.4 has been corrected.

D.3.4 Record Keeping Requirements

- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records of the following:

...

- (3) Organic HAP emission calculations performed using the equations in ~~e~~Condition D.3.3 ~~A~~; and

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on November 13, 2007.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Revision No. 085-25528-00006. The staff recommends to the Commissioner that this FESOP Significant Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sandra Carr at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5372) or toll free at 1-800-451-6027 extension (45372).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov