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: November 21, 2011

RE: Metal Technologies Auburn, LLC / 033-30771-00042

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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November 21, 2011

Daniel Hollenbeck
Metal Technologies Auburn, LLC
1401 South Grandstaff Dr.
Auburn, IN 46706

Re: 033-30771-00042
Significant Source Modification to
Part 70 Permit No.: T 033-21760-00042

Dear Mr. Hollenbeck:

Metal Technologies Auburn, LLC was issued a Part 70 Operating Permit on August 29, 2008 for a stationary gray iron foundry. A letter requesting changes to this permit was received on August 08, 2011. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand each and controlled by baghouse DC-1

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13 17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the significant permit modification has been issued.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating Permit as modified will be provided at issuance.

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 Ghassan Shalabi, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Ghassan Shalabi or extension (4-5378), or dial (317) 234-5378.

Sincerely,

Tripurari Sinha

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

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

GS

cc: File – DeKalb County
DeKalb County Health Department
U.S. EPA, Region V
Northern Regional Office

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Significant Source Modification to a Part 70 Source
OFFICE OF AIR QUALITY

Metal Technologies Auburn, LLC
1537 West Auburn Drive
Auburn, Indiana 46706

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

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

Significant Source Modification No.: 033-30771-00042	
Issued by: Tripurari Sinha Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: November 21, 2011

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary gray iron foundry.

Source Address:	1537 West Auburn Drive, Auburn, Indiana 46706
General Source Phone Number:	(260) 925-4717
SIC Code:	3321
County Location:	DeKalb
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act 1 of 28 PSD Source Categories

A.2 Emission Units & Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][26 IAC 2-7-5(15)]

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

(a) One (1) gray iron charging, melting, ladle metallurgy, holding and transfer system; identified collectively as EU-2; constructed in 1995; a nominal capacity of 36 tons of metal per hour; a maximum capacity of 45 tons of metal per hour; emissions controlled by baghouses DC-2 & DC-8; emissions exhaust to stacks S-2 & S-8. The transfer operations refer to the transfer of metal from the holding furnace to the ladle. The system consists of the following equipment/operations:

(1) One (1) furnace charging operation;

(2) Three (3) electric induction furnaces;

(3) One (1) ladle metallurgical station; and

(4) One (1) electric holding furnace.

The three (3) electric induction furnaces are considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(b) One (1) Line 1 pouring and casting operation; identified as EU-3a1; constructed in 1995 and modified in 2008; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a1 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

Before Modification 033-28412-00042

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-2; emissions exhaust to stack S-2. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

After Modification 033-28412-00042

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; modified in 2009, a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(d) One (1) Line 3 pouring and casting operation; identified as EU-3a3; constructed in 1995 and to be modified in 2008; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a3 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(e) One (1) Line 4 pouring and casting operation; identified as EU-3a4; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a4 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(f) One (1) Line 1 casting cooling operation; identified as EU-3b1; constructed in 1995; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

(g) One (1) Line 2 casting cooling operation; identified as EU-3b2; constructed in 1995; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

(h) One (1) Line 3 casting cooling operation; identified as EU-3b3; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3d.

(i) One (1) Line 4 casting cooling operation; identified as EU-3b4; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3d.

(j) One (1) Line 3 and Line 4 shakeout operation; identified as EU-4; constructed in 1995; a nominal capacity of 18 tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-4; emissions exhaust to stack S-4.

(k) One (1) Line 1 and Line 2 shakeout operation; identified as EU-5a; constructed in 1995; a nominal capacity of 20 tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-5; emissions exhaust to stack S-5.

(l) One (1) return sand/waste sand system; identified as EU-5bc; constructed in 1995; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour; emissions controlled by baghouse DC-5, which exhausts to stack S-5.

(m) One (1) shot reblast unit; identified as EU-6; constructed in 1997; a nominal capacity of 1.12 tons of iron castings per hour; a maximum capacity of 5 tons of iron castings per hour; emissions controlled by baghouse DC-8, which exhausts to stack S-8.

(n) One (1) shot blast system; consisting of four (4) shot blast units; identified as EU-16 through EU-19; constructed in 1999; a total nominal capacity of 27 tons of iron castings per hour; a total maximum capacity of 32 tons of iron castings per hour; with emissions controlled by baghouse DC-3, which exhausts to stack S-15.

(o) Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1 and stack S-10. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

(p) One (1) ductile iron conversion process identified as EU-20; constructed in 2009; a nominal capacity of 36 tons of metal per hour; a maximum capacity of 45 tons of metal per hour, 58% of particulate emissions controlled by baghouse System 20 to stack S-20; Production limited to 95,000 tons per rolling 12-months period.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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

(a) 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].

(b) One (1) test sample blast machine; identified as EU-1b; constructed in 1995; a nominal capacity of 150 pounds of metal per hour; emissions controlled by baghouse DC-1; exhausting to stack S-1. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO2; 5 lb/hr or 25 lb/day NOx; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Scrap receiving operations: All metal scrap is received via truck and deposited into scrap storage bins within a building. A source of fugitive emissions.[326 IAC 6-4]

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

(e) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations, which include the following: Two (2) enclosed grinding units controlled by fabric filters and exhausting inside the building. [326 IAC 6-3-2]

(f) Eight (8) grinders; identified together as EU-7; constructed in 1999; a combined nominal capacity of 25 tons of iron castings per hour; a combined maximum capacity of 32 tons of iron castings per hour; emissions controlled by individual dust collectors which have a gas flow rate of less than 4,000 cfm each, and which have a grain loading of less than or equal to (0.03) grains per actual cubic foot, and which exhaust indoors. [326 IAC 2-7-1(21)(G)(xxiii)]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T033-21760-00042, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

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

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

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1 (34), and

(ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. 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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

(a) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90)

days after initial start-up, whichever is later, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Northern Regional Office no later than four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877**.**

(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

no later than two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T033-21760-00042 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

(1) That this permit contains a material mistake.

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

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

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

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

B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

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

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

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2 (for sources located in attainment areas).

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

Indiana Department of Environmental Management
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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

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

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

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

B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

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

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

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

(a) For performance testing required by this permit, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

(d) The Permittee may request an extension of a deadline to conduct testing as provided by 40 CFR 60.8, 61.13 or 63.7.

(e) In addition to any other testing required by this permit if at any time the Permittee replaces a control device that is used to comply with an emission limitation listed in Section D, then the Permittee shall conduct a performance test no later than one hundred eighty (180) days after installation of the replacement control device in accordance with this condition.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 a certification the meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

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

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

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

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

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

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

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

(f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to 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 excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is 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 normal or usual manner of operation.

(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 necessarily limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2010 and every three (3) years thereafter, the Permittee shall submit no later than July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

(c) If there is a reasonable possibility (as defined in 40 CFR 51.165 (a)(6)(vi)(A), 40 CFR 51.165 (a)(6)(vi)(B), 40 CFR 51.166 (r)(6)(vi)(a), and/or 40 CFR 51.166 (r)(6)(vi)(b)**)** that a "project" (as defined in 326 IAC 2-2-1(qq)) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

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

(1) A description of the project.

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

(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(A) Baseline actual emissions;

(B) Projected actual emissions;

(C) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and

(D) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(d) If there is a reasonable possibility (as defined in 40 CFR 51.165 (a)(6)(vi)(A) and/or 40

CFR 51.166 (r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

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

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

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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) 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.

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

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in

326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

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

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

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

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

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

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

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Melting, Pouring and Casting Operations

(a) One (1) gray iron charging, melting, ladle metallurgy, holding and transfer system; identified collectively as EU-2; constructed in 1995; a nominal capacity of 36 tons of metal per hour; a maximum capacity of 45 tons of metal per hour; particulate emissions controlled by baghouses DC-2 & DC-8; emissions exhaust to stacks S-2 & S-8. The transfer operations refer to the transfer of metal from the holding furnace to the ladle. The system consists of the following equipment/operations:

(1) One (1) furnace charging operation;

(2) Three (3) electric induction furnaces;

(3) One (1) ladle metallurgical station; and

(4) One (1) electric holding furnace.

The three (3) electric induction furnaces are considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(b) One (1) Line 1 pouring and casting operation; identified as EU-3a1; constructed in 1995 and modified in 2008; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a1 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

<u>Before Modification 033-28412-00042</u>

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

<u>After Modification 033-28412-00042</u>

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; modified in 2009, a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(d) One (1) Line 3 pouring and casting operation; identified as EU-3a3; constructed in 1995 and to be modified in 2008; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a3 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(e) One (1) Line 4 pouring and casting operation; identified as EU-3a4; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-8. EU-3a4 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(m) One (1) shot reblast unit; identified as EU-6; constructed in 1997; a nominal capacity of 1.12 tons of iron castings per hour; a maximum capacity of 5 tons of iron castings per hour; emissions controlled by baghouse DC-8 which exhausts to stack S-8.

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

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

D.1.1 Best Available Control Technology (BACT) for PM/PM_{10} Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with the following:

(a) PM/PM_{10} emissions from the charging, melting, metallurgy, holding and transfer operations (EU-2) shall be controlled by a baghouse.

(b) PM/PM_{10} emissions from the pouring and casting operations (EU-3a1, EU-3a2, EU-3a3 and EU-3a4) shall be controlled by a baghouse.

(c) The PM/PM_{10} emissions from the following facilities are limited, as indicated in the table below:

Process/facility Description (ID)	Filterable PM/PM_{10} Emissions		Filterable Plus Condensable PM_{10} Emissions
	(gr/dscf)	(lb/hr)	(lb/ton iron produced)
Charging, melting, metallurgy, holding and transfer operations (EU-2)	0.003	3.6	0.06
Pouring and casting operations (EU-3a1, EU-3a2, EU-3a3 and EU-3a4)			
Shot reblast operation (EU-6)	0.003	0.15	–

(d) The total iron production of the electric induction furnaces (comprising EU-2) shall not exceed 750 tons per day and 220,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(e) Visible emissions of the fugitive emissions from building openings shall not exceed twenty percent (20%) opacity, as determined by a six (6) minute average (24 readings taken in accordance with EPA Method 9, Appendix A); except for one 6-minute average per hour that does not exceed twenty seven percent (27%) opacity.

D.1.2 Best Available Control Technology (BACT) for VOC Emissions [326 IAC 2-2-3] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-2-3 (PSD - BACT), 326 IAC 8-1-6, and PSD T033-21760-00042, VOC BACT for the pouring, cooling and shakeout operations (EU-3a1 through EU-3a4, EU-3b1 through EU-3b4, EU-4 and EU-5a) is as follows:

(a) The Permittee shall use low emitting greensand binding materials and core resin binders.

(b) The total VOC emissions from pouring, cooling and shakeout operations shall not exceed 0.8 pounds per ton of metal poured when using greensand molds without cores and 1.7 pounds of VOC per ton of metal poured when using greens and molds with cores as determined by validation testing in accordance with Condition D.1.6.

D.1.3 Best Available Control Technology (BACT) for CO Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD) and PSD T033-21760-00042, the CO emissions from the pouring and casting operations (EU-3a1, EU-3a2, EU-3a3 and EU-3a4, stack S-8), casting cooling operations (EU-3b1 and EU-3b2, stack S-3b; EU-3b3 and EU-3b4, stack S-3d) and shakeout operations (EU-4, stack S-4 and EU-5a, stack S-5) shall not exceed 6.0 pounds per ton of metal.

D.1.4 PSD Minor Limit - Lead Emissions [326 IAC 2-2]

The total lead emissions from the charging, melting, metallurgy, holding and transfer operations (EU-2, stacks S-2 & S-8) and pouring and casting operations (EU-3a1, EU-3a2, EU-3a3 and EU-3a4, stack S-8) shall not exceed 0.003 pounds per ton of iron produced.

Compliance with these limits and Conditions D.1.1(d), D.2.4 and D.3.4 will limit the source-wide lead emissions to less than 0.6 tons per twelve consecutive month period and render the requirements of 326 IAC 2-2 not applicable to the source.

Compliance Determination Requirements

D.1.5 Particulate and VOC Control

(a) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Conditions D.1.1 and D.1.4, baghouse DC-8, used to control particulate emissions, shall be in operation and control at all times EU-2, EU-3a1, EU-3a2, EU-3a3, and EU-3a4 are in operation.

(b) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Conditions D.1.1 and D.1.4, baghouse DC-2 and DC-8, used to control particulate emissions, shall be in operation and control at all times EU-2 is in operation.

(c) Pursuant to 326 IAC 2-2 and 326 IAC 8-1-6, and in order to ensure compliance with Condition D.1.2, the greensand molding materials, percent loss on ignition (%LOI), shell and phenolic urethane cold box core resins and percent resin in the cores shall be consistent with the respective characteristics used during validation testing.

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with Condition D.1.1, the Permittee shall perform PM/PM_{10} testing for EU-2, EU-3a1, EU-3a2, EU-3a3, EU-3a4, and EU-6 utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) In order to demonstrate the compliance status with Condition D.1.3, the Permittee shall perform CO testing for EU-2, EU-3a1, EU-3a2, EU-3a3, EU-3a4, EU-3b1, EU-3b2, EU-3b3, EU-3b4, EU-4 and EU-5a utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(c) In order to demonstrate the compliance status with Condition D.1.4, the Permittee shall perform lead testing for EU-2, EU-3a1, EU-3a2, EU-3a3 and EU-3a4 utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(d) The Permittee shall submit a testing protocol for the VOC validation testing of the greensand and core materials used in the casting process. The test protocol shall identify the specific resins and resin content of the cores to be tested and the resin content of the cores as a % of the total core weight. The test protocol shall also identify the %LOI of the greensand molds, the casting weight and specific test pattern used in the validation testing. The validation testing for VOCs shall be performed on individual molds for both greensand molds only and for greensand molds with cores.

(e) Validation testing of the materials currently in use at the facility shall be completed by August 1, 2008 for casting in greensand molds with either shell or phenolic urethane cold box cores.

(f) Once the results of validation testing are available, the OAQ will evaluate those results and determine if the BACT requirements established in this condition must be revised. If revisions are needed, the OAQ will reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include revised requirements necessary to comply with 326 IAC 2-2 (PSD).

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

D.1.7 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust from EU-6 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. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions and Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

D.1.8 Baghouse Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with EU-6 at least once per day when the respective facilities are in operation.

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(c) The instrument used for determining the 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.1.9 Broken or Failed Bag Detection

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

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

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

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

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

D.1.10 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.1.1(d), the Permittee shall maintain records of the total metal production of the electric induction furnaces (comprising EU-2).

(b) In order to document the compliance status with Condition D.1.2, the Permittee shall maintain records of the following:

(1) The resin content of the shell and phenolic urethane cold box cores, and

(2) The %LOI of the greensand mold system.

(c) In order to document the compliance status with Condition D.1.6, the Permittee shall maintain records of the results from testing required by that condition.

(d) In order to document the compliance status with Condition D.1.7, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) In order to document the compliance status with Condition D.1.8, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

(f) For extended periods of time when visible emissions notations and daily parametric monitoring are not required (e.g., the units are venting indoors or during plant shutdown), IDEM, OAQ Compliance Branch has determined that it is sufficient to document the reason daily visible emissions notations and parametric monitoring will not be required on the first day of the period and document when the visible emissions notations and daily parametric monitoring requirement will resume.

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

D.1.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with the twelve-month rolling limit in Condition D.1.1(d) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(f) One (1) Line 1 casting cooling operation; identified as EU-3b1; constructed in 1995; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

(g) One (1) Line 2 casting cooling operation; identified as EU-3b2; constructed in 1995; a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

(h) One (1) Line 3 casting cooling operation; identified as EU-3b3; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3d.

(i) One (1) Line 4 casting cooling operation; identified as EU-3b4; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3d.

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

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

D.2.1 Best Available Control Technology (BACT) for PM/PM_{10} Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21750-00042, the PM/PM_{10} emissions from the following facilities are limited, as indicated in the table below:

Process/facility Description (ID)	Filterable PM/PM_{10} Emissions		Filterable Plus Condensable PM_{10} Emissions
	(gr/dscf)	(lb/hr)	(lb/ton iron produced)
Line 1 and Line 2 casting cooling operations (EU-3b1 and EU-3b2)	0.01	2.14	0.09
Line 3 and Line 4 casting cooling operations (EU-3b3 and EU-3b4)	0.01	2.14	0.09

D.2.2 Best Available Control Technology (BACT) for VOC Emissions [326 IAC 2-2-3] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-2-3 (PSD - BACT), 326 IAC 8-1-6 and PSD T033-21760-00042, the Permittee shall comply with VOC BACT for the casting cooling operations (EU-3b1 through EU-3b4) in Condition D.1.2.

D.2.3 Best Available Control Technology (BACT) for CO Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with CO BACT for the casting cooling operations (EU-3b1 through EU-3b4) in Condition D.1.3.

D.2.4 PSD Minor Limit - Lead Emissions [326 IAC 2-2]

(a) The lead emissions from the Line 1 and Line 2 casting cooling operations (EU-3b1 and EU-3b2, stack S-3b) shall not exceed 0.0012 pounds per ton of iron processed.

(b) The lead emissions from the Line 3 and Line 4 casting cooling operations (EU-3b3 and

EU-3b4, stack S-3d) shall not exceed 0.0012 pounds per ton of iron processed.

Compliance with these limits and Conditions D.1.1(d), D.1.4 and D.3.4 will limit the source-wide lead emissions to less than 0.6 tons per twelve consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

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

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

(a) In order to demonstrate the compliance status with Condition D.2.1, the Permittee shall perform PM/PM_{10} testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) In order to demonstrate the compliance status with Condition D.2.2, the Permittee shall perform the VOC testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 required by Condition D.1.6(d).

(c) In order to demonstrate the compliance status with Condition D.2.3, the Permittee shall perform the CO testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 required by Condition D.1.6(b).

(d) In order to demonstrate the compliance status with Condition D.2.4, the Permittee shall perform lead testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

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

D.2.7 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.2.6, the Permittee shall maintain records of the results from testing required by that condition.

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(j) One (1) Line 3 and Line 4 shakeout operation; identified as EU-4; constructed in 1995; a nominal capacity of 18 tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-4; emissions exhaust to stack S-4.

(k) One (1) Line 1 and Line 2 shakeout operation; identified as EU-5a; constructed in 1995; a nominal capacity of 20 tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-5; emissions exhaust to stack S-5.

(l) One (1) return sand/waste sand system; identified as EU-5bc; constructed in 1995; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour; emissions controlled by baghouse DC-5 which exhausts to stack S-5.

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

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

D.3.1 Best Available Control Technology (BACT) for PM/PM_{10} Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with the following:

(a) PM/PM_{10} emissions from the Line 3 and Line 4 shakeout operation (EU-4) shall be controlled by a baghouse.

(b) PM/PM_{10} emissions from the Line 1 and Line 2 shakeout operation (EU-5a) and return sand and waste sand system (EU-5bc) shall be controlled by a baghouse.

(c) The PM/PM_{10} emissions from the following facilities are limited, as indicated in the table below:

Process/facility Description (ID)	Filterable PM/PM_{10} Emissions		Filterable Plus Condensable PM_{10} Emissions
	(gr/dscf)	(lb/hr)	(lb/ton iron produced)
Line 3 and Line 4 shakeout operation (EU-4)	0.003	2.06	0.10
Line 1 and Line 2 shakeout operation (EU-5a) and return sand and waste sand system (EU-5bc)	0.003	3.34	0.12

D.3.2 Best Available Control Technology (BACT) for VOC Emissions [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to to 326 IAC 2-2-3 (PSD - BACT), 326 IAC 8-1-6 and PSD T033-21760-00042, the Permittee shall comply with VOC BACT for the shakeout operations (EU-4 and EU-5a) in Condition D.1.2.

D.3.3 Best Available Control Technology (BACT) for CO Emissions [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with CO BACT for the shakeout operations (EU-4 and EU-5a) in Condition D.1.3.

D.3.4 Lead Emissions [326 IAC 2-2]

(a) The lead emissions from the Line 3 and Line 4 shakeout operation (EU-4, stack S-4) shall not exceed 0.0012 pounds per ton of iron processed.

(b) The lead emissions from the Line 1 and Line 2 shakeout operation (EU-5a, stack S-5) and return sand and waste sand system (EU-5bc, stack S-5) shall not exceed 0.0012 pounds per ton of iron processed.

Compliance with these limits and Conditions D.1.1(d), D.1.4, and D.2.4 will limit the source-wide lead emissions to less than 0.6 tons per twelve consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.3.6 Particulate Control

(a) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Condition D.3.4(a), baghouse DC-4, used to control particulate emissions, shall be in operation and control at all times EU-4 is in operation.

(b) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Condition D.3.4(b), baghouse DC-5, used to control particulate emissions, shall be in operation and control at all times EU-5a and EU-5bc are in operation.

D.3.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with Condition D.3.1, the Permittee shall perform PM/PM_{10} testing for EU-4, EU-5a and EU-5bc utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) In order to demonstrate the compliance status with Condition D.3.2, the Permittee shall perform the VOC testing for EU-4 and EU-5a required by Condition D.1.6(d).

(c) In order to demonstrate the compliance status with Condition D.3.3, the Permittee shall perform the CO testing for EU-4 and EU-5a required by Condition D.1.6(b).

(d) In order to demonstrate the compliance status with Condition D.3.4, the Permittee shall perform lead testing for EU-4 and EU-5a utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

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

D.3.8 Visible Emissions Notations

(a) Visible emission notations of the stack exhaust from EU-4, EU-5a and EU-5bc (stacks S-4 and S-5) 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. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

D.3.9 Baghouse Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouses used in conjunction with EU-4, EU-5a and EU-5bc at least once per day when the respective facilities are in operation.

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(c) The instrument used for determining the 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.3.10 Broken or Failed Bag Detection

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

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

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

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

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

D.3.11 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.3.7, the Permittee shall maintain records of the results from testing required by that condition.

(b) In order to document the compliance status with Condition D.3.8, the Permittee shall maintain records of the visible emission notations required by that condition. 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) In order to document the compliance status with Condition D.3.9, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

(d) For extended periods of time when visible emissions notations and daily parametric monitoring are not required (e.g., the units are venting indoors or during plant shutdown), IDEM, OAQ has determined that it is sufficient to document the reason daily visible emissions notations and parametric monitoring will not be required on the first day of the period and document when the visible emissions notations and daily parametric monitoring requirement will resume.

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

Before the operations of Baghouse DC-8 and Stack S-8

SECTION D.4

FACILITY OPERATION CONDITIONS

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

(m) One (1) shot reblast unit; identified as EU-6; constructed in 1997; a nominal capacity of 1.12 tons of iron castings per hour; a maximum capacity of 5 tons of iron castings per hour; emissions controlled by baghouse DC-6 which exhausts to stack S-6.

(n) One (1) shot blast system; consisting of four (4) shot blast units; identified as EU-16 through EU-19; constructed in 1999; a total nominal capacity of 27 tons of iron castings per hour; a total maximum capacity of 32 tons of iron castings per hour; with emissions controlled by baghouse DC-3 which exhausts to stack S-15.

(o) Eight (8) grinders; identified together as EU-7; constructed in 1999; a combined nominal capacity of 25 tons of iron castings per hour; a combined maximum capacity of 32 tons of iron castings per hour; emissions controlled by individual dust collectors; exhausting indoors.

(p) Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

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

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

D.4.1 Best Available Control Technology (BACT) for PM/PM_{10} Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with the following:

(a) PM/PM_{10} emissions from the shot reblast unit (EU-6) shall be controlled by a baghouse.

(b) PM/PM_{10} emissions from the shot blast system (EU-16 through EU-19) shall be controlled by a baghouse.

(c) PM/PM_{10} emissions from the grinders (EU-7) shall be controlled by dust collectors and exhaust indoors.

(d) PM/PM_{10} emissions from the sand handling operations (EU-1a) shall be controlled by a baghouse.

The PM/PM_{10} emissions from the following facilities are limited, as indicated in the table below:

Process/facility Description (ID)	PM/PM_{10} Emissions	
	(gr/dscf)	(lb/hr)
Shot reblast unit (EU-6)	0.003	0.15
Shot blast system (EU-16 through EU-19)	0.003	0.95
Sand handling operations (EU-1a)	0.003	0.64
Exhausts indoors: Grinders (EU-7)	0.003	-

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.4.3 Particulate Control

(a) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Condition D.4.1, baghouse DC-6, used to control particulate emissions, shall be in operation and control at all times EU-6 is in operation.

(b) Pursuant to 326 IAC 2-2, and in order to ensure compliance with Condition D.4.1, baghouse DC-3, used to control particulate emissions, shall be in operation and control at all times EU-16 through EU-19 are in operation.

(c) Pursuant to 326 IAC 2-2, the dust collectors used in conjunction with EU-7, used to control particulate emissions, shall be in operation at all times EU-7 is in operation.

(d) Pursuant to 326 IAC 2-2, baghouse DC-1, used to control particulate emissions, shall be in operation at all times EU-1a is in operation.

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

D.4.4 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of the stack exhaust from EU-6, EU-16 through EU-19 and EU-1a (stacks S-6, S-15 and S-1) 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. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

D.4.5 Baghouse Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the pressure drop across the baghouses used in conjunction with EU-6, EU-16 through EU-19, and EU-1a at least once per day when the respective facilities are in operation.

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(c) The instrument used for determining the 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.4.6 Broken or Failed Bag Detection [40 CFR 64]

(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 process 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).

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

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

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

D.4.7 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.4.4, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.4.5, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

(c) For extended periods of time when visible emissions notations and daily parametric monitoring are not required (e.g., the units are venting indoors or during plant shutdown), IDEM, OAQ Compliance Branch has determined that it is sufficient to document the reason daily visible emissions notations and parametric monitoring will not be required on the first day of the period and document when the visible emissions notations and daily parametric monitoring requirement will resume.

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

Effective after the operations of Baghouse DC-8 and Stack S-8

SECTION D.4

FACILITY OPERATION CONDITIONS

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

(n) One (1) shot blast system; consisting of four (4) shot blast units; identified as EU-16 through EU-19; constructed in 1999; a total nominal capacity of 27 tons of iron castings per hour; a total maximum capacity of 32 tons of iron castings per hour; with emissions controlled by baghouse DC-3 which exhausts to stack S-15.

(o) Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

Insignificant Activities

(f) Eight (8) grinders; identified together as EU-7; constructed in 1999; a combined nominal capacity of 25 tons of iron castings per hour; a combined maximum capacity of 32 tons of iron castings per hour; emissions controlled by individual dust collectors which have a gas flow rate of less than 4,000 cfm each, and which have a grain loading of equal to or less than (0.03) grains per actual cubic foot, and which exhaust indoors. [326 IAC 2-7-1(21)(G)(xxiii)]

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

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

D.4.1 Best Available Control Technology (BACT) for PM/PM_{10} Emissions [326 IAC 2-2-3]

Pursuant to 326 IAC 2-2-3 (PSD – BACT) and PSD T033-21760-00042, the Permittee shall comply with the following:

(a) PM/PM_{10} emissions from the shot blast system (EU-16 through EU-19) shall be controlled by a baghouse.

(b) PM/PM_{10} emissions from the grinders (EU-7) shall be controlled by dust collectors and exhaust indoors.

(c) PM/PM_{10} emissions from the sand handling operations (EU-1a) shall be controlled by a baghouse.

The PM/PM_{10} emissions from the following facilities are limited, as indicated in the table below:

Process/facility Description (ID)	PM/PM_{10} Emissions	
	(gr/dscf)	(lb/hr)
Shot blast system (EU-16 through EU-19)	0.003	0.95

Sand handling operations (EU-1a)	0.003	0.64
Exhausts indoors: Grinders (EU-7)	0.003	-

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.4.3 Particulate Control

(a) Pursuant to 326 IAC 2-2, and in order to comply with Condition D.4.1, baghouse DC-3, used to control particulate emissions, shall be in operation and control at all times EU-16 through EU-19 are in operation.

(b) Pursuant to 326 IAC 2-2, the dust collectors used in conjunction with EU-7, used to control particulate emissions, shall be in operation and control at all times EU-7 is in operation.

(c) Pursuant to 326 IAC 2-2, baghouse DC-1, used to control particulate emissions, shall be in operation at all times EU-1a is in operation.

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

D.4.4 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of the stack exhaust from EU-16 through EU-19 and EU-1a 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 and Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

D.4.5 Baghouse Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the pressure drop across the baghouses used in conjunction with EU-16 through EU-19, and EU-1a at least once per day when the respective facilities are in operation.

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances

contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(c) The instrument used for determining the 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.4.6 Broken or Failed Bag Detection [40 CFR 64]

(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 process 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).

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

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

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

D.4.7 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.4.4, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.4.5, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

(c) For extended periods of time when visible emissions notations and daily parametric monitoring are not required (e.g., the units are venting indoors or during plant shutdown), IDEM, OAQ Compliance Branch has determined that it is sufficient to document the reason daily visible emissions notations and parametric monitoring will not be required on the first day of the period and document when the visible emissions notations and daily parametric monitoring requirement will resume.

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

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities

(a) 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].

(b) One (1) test sample blast machine; identified as EU-1b; constructed in 1995; a nominal capacity of 150 pounds of metal per hour; emissions controlled by baghouse DC-1; exhausting to stack S-1. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO2; 5 lb/hr or 25 lb/day NOx; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Scrap receiving operations: All metal scrap is received via truck and deposited into scrap storage bins within a building. A source of fugitive emissions. [326 IAC 6-4]

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

(e) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations, which include the following: Two (2) enclosed grinding units controlled by fabric filters and exhausting inside the building. [326 IAC 6-3-2]

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

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

D.5.1 Particulate Emission Limitations from Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate emissions from the insignificant grinding, brazing, soldering, and welding operations and test sample blast machine shall be limited by the following:

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

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

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Ductile Iron Conversion Process

(p) One (1) ductile iron conversion process identified as EU-20; constructed in 2009; a nominal capacity of 36 tons of metal per hour; a maximum capacity of 45 tons of metal per hour, 58% of particulate emissions controlled by baghouse System 20 to stack S-20; Production limited to 95,000 tons per rolling 12-months period.

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

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

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

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable to this modification, the following conditions shall apply:

(a) The total melt rate for ductile iron production shall not exceed 95,000 tons per 12 consecutive month period with compliance determined at the end of each month.

(b) The uncontrolled PM emissions from the DIC tundish shall not exceed 0.50652 lb/ton.

(c) The uncontrolled PM_{10} emissions from the DIC tundish shall not exceed 0.3024 lb/ton.

(d) The PM emissions from EU-20, after the baghouse System 20, shall not exceed 0.014 lb/ton.

(e) The PM_{10} emissions from EU-20, after the baghouse System 20, shall not exceed 0.01 lb/ton.

Compliance with these limits shall limit the PM and PM_{10} emissions to less than 25 and 15 tons per twelve consecutive month period, respectively, and render the requirements of 326 IAC 2-2 not applicable to this modification.

D.6.2 Particulate Emission Limitations from Manufacturing Processes [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 ductile iron conversion process, identified as EU-20, shall not exceed 43.60 pounds per hour when operating at a process weight rate of 45 tons per hour. The pounds per hour limitation was calculated using the following equation:

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

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

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.6.4 Particulate Control

(a) In order to ensure compliance with Condition D.6.1, baghouse System 20 shall be in operation and control at all times when EU-20 is in operation.

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

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

The Permittee shall perform inlet and outlet PM and PM_{10} testing on baghouse System 20 controlling the ductile iron conversion (DIC) process (EU-20) using methods as approved by the Commissioner, in order to demonstrate the compliance status with the PM and PM_{10} limits. PM_{10} includes filterable and condensable emissions. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test. Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.6.6 Parametric Monitoring

(a) The Permittee shall determine the fan amperage from the most recent valid stack that demonstrates compliance with condition D.6.1, as approved by IDEM.

(b) The fan amperage shall be observed at least once per day when the baghouse System 20 is in operation. On and after the date the approved stack test results are available, the fan amperage shall be maintained within the normal range as established in the most recent compliant stack test. When for any one reading the fan amperage is outside the range established in the most recent compliant stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A reading that is outside the range as established in the most recent compliant stack test is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.7 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 process 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).

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

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

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

D.6.8 Record Keeping Requirements

(a) In order to document the compliance status condition D.6.1, the permittee shall maintain records of the total ductile iron produced each month (comprising EU-20).

(b) In order to document the compliance status Condition D.6.5, the Permittee shall maintain records of the results from the testing required by that condition.

(c) In order to document the compliance status Condition D.6.6, the Permittee shall maintain records of the fan amperage required by that condition. The Permittee shall include in its daily record when a fan amperage is not taken and the reason for the lack of a fan amperage (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.6.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with the twelve-month rolling limit in Condition D.6.1(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION E.1 FACILITY OPERATION CONDITIONS

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

The charging, melting, ladle metallurgy, holding and transfer system; identified collectively as EU-2 and listed in Section D.1.

The pouring and casting operations; identified as EU-3a1 through EU-3a4 and listed in Section D.1.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements – 40 CFR Part 63, Subpart EEEEE [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [326 IAC 20-92] [40 CFR Part 63, Subpart A]

(a) Pursuant to 326 IAC 20-92 and 40 CFR 63.7760, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, for the iron and steel foundry and all activities associated with the iron and steel foundry as specified in 40 CFR 63.7682(b), and in Table 1 of 40 CFR Part 63, Subpart EEEEE in accordance with schedule in 40 CFR Part 63, Subpart EEEEE.

(b) Pursuant to 326 IAC 20-92 and 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

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

Except as specified in 40 CFR 63.7683(b), pursuant to 326 IAC 20-92 and 40 CFR 63.7683(a), the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart EEEE for the electric induction furnaces associated with facility EU-2, the pouring and casting operations (EU-3a1, EU-3a2, EU-3a3 and EU-3a4) and the fugitive emissions from foundry operations no later than April 23, 2007:

(1) 40 CFR 63.7681
(2) 40 CFR 63.7682
(3) 40 CFR 63.7683 (a), (b), (f)
(4) 40 CFR 63.7690 (a)(1), (a)(5), (a)(7)
(5) 40 CFR 63.7700 (a), (b), (c)(1)(i), (c)(2), (c)(3)
(6) 40 CFR 63.7710 (a), (b)(1), (b)(3) - (b)(6)
(7) 40 CFR 63.7720
(8) 40 CFR 63.7730 (a), (b)
(9) 40 CFR 63.7731
(10) 40 CFR 63.7732 (a), (b)(1), (b)(2), (b)(4), (c)(1), (c)(2), (c)(4), (d), (h)
(11) 40 CFR 63.7733 (e), (f)
(12) 40 CFR 63.7734 (a)(1), (a)(5), (a)(7)
(13) 40 CFR 63.7735 (a), (b)
(14) 40 CFR 63.7736 (c), (d)
(15) 40 CFR 63.7740 (b), (f)
(15) 40 CFR 63.7741 (b)(14)
(16) 40 CFR 63.7742
(17) 40 CFR 63.7743 (a)(1), (a)(5), (a)(7), (c)

(18) 40 CFR 63.7744 (a)
(19) 40 CFR 63.7745
(20) 40 CFR 63.7746
(21) 40 CFR 63.7747 (b) - (d)
(22) 40 CFR 63.7750 (a), (b), (d), (e)
(23) 40 CFR 63.7751
(24) 40 CFR 63.7752
(25) 40 CFR 63.7753
(26) 40 CFR 63.7760
(27) 40 CFR 63.7761
(28) 40 CFR 63.7765
(29) Table 1 of Subpart EEEEE

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

Source Name: Metal Technologies Auburn, LLC
Source Address: 1537 West Auburn Drive, Auburn, Indiana 46706
Part 70 Permit No.: T033-21760-00042

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Metal Technologies Auburn, LLC
Source Address: 1537 West Auburn Drive, Auburn, Indiana 46706
Part 70 Permit No.: T 033-21760-00042

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

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

- The Permittee must notify the Office of Air Quality (OAQ), no later than 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 no later than two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Metal Technologies Auburn, LLC
Source Address: 1537 West Auburn Drive, Auburn, Indiana 46706
Part 70 Permit No.: T033-21760-00042
Facility: Electric Induction Furnaces (comprising EU-2)
Parameter: metal production
Limit: The total iron production shall not exceed 220,000 tons per twelve consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Iron production	Iron production	Iron production
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

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

Part 70 Quarterly Report

Source Name: Metal Technologies Auburn, LLC
Source Address: 1537 West Auburn Drive, Auburn, Indiana 46706
Part 70 Permit No.: T033-21760-00042
Facility: Ductile Iron Conversion Process (EU-20)
Parameter: Ductile Iron Production
Limit: The total ductile iron production shall not exceed 95,000 tons per twelve consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Iron production	Iron production	Iron production
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Metal Technologies Auburn, LLC
Source Address: 1537 West Auburn Drive, Auburn, Indiana 46706
Part 70 Permit No.: T033-21760-00042

Months: _____ Year: _____

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

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

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

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Source Modification

Source Description and Location

Source Name:	Metal Technologies Auburn, LLC
Source Location:	1537 West Auburn Drive, Auburn, IN 46706
County:	Dekalb
SIC Code:	3321
Operation Permit No.:	T033-21760-00042
Operation Permit Issuance Date:	August 29, 2008
Significant Source Modification No.:	033-30771-00042
Significant Permit Modification No.:	033-30795-00042
Permit Reviewer:	Ghassan Shalabi

Existing Approvals

The source was issued Part 70 Operating Permit No. T033-21760-00042 on August 29, 2008. The source has since received the following approvals:

(a) Interim Minor source Modification No. 033-268261-00042, issued on August 14, 2008;

(b) Administrative Amendment No. 083-26953-00042**,** issued on October 21, 2008;

(c) Significant Permit Modification No. 083-28001-00042**,** issued on January 30, 2009;

(d) Minor Source Modification No. 083-27648-00042, issued on April 3, 2009;

(e) Significant Permit Modification No. 083-27652-00042, issued on May 21, 2009;

(f) Minor Source Modification No. 083-28412-00042, issued on October 15, 2009; and

(g) Minor Permit Modification No. 083-28467-00042, issued on December 11, 2009;

(h) Significant Permit Modification No. 033-29247-00042, issued on July 12, 2010.

County Attainment Status

The source is located in DeKalb County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

Pollutant	Designation
Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. DeKalb 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) $PM_{2.5}$

DeKalb 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. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct $PM_{2.5}$ significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants
DeKalb County has been classified as attainment or unclassifiable in Indiana for all other Criteria Pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a secondary metal production plant, 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.

Source Status

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

Pollutant	**Emissions** (ton/yr)
PM	<100
PM_{10}	<100
$PM_{2.5}$	<100
SO_2	<100
VOC	>100
CO	>100
NO_X	<100
HAPs	>10
Total	**>25**

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

(b) These emissions are based upon Significant Permit Modification No.033-29247-00042, issued July 12, 2010.

This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Metal Technologies Auburn, LLC on August 08, 2011, relating to changing the description of the Sand Handling System (EU 1a) and relating to installing 4 new sand mullors to replace the existing Eirich sand mixers. The following is a list of the modified emission units and pollution control devices:

(a) Sand handling system; constructed in 1995 and modified in 2011; identified as (EU-1a); a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1 and stack S-10. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

Enforcement Issues

There are no pending enforcement actions.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (^{0}F)
S-1	Sand Handling EU-1a	102	3.17	28,000	120
S-10	Sand Handling EU-1a	120	3.17	32,000	120

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount

of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

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

Increase in PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	1171.9
PM_{10}	175.8
$PM_{2.5}$	175.8
SO_2	0
VOC	0
CO	0
NO_X	0
Single HAPs	0
Total HAPs	0

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because it is a modification with a potential to emit greater than 25 tons per year of PM and PM10. Additionally, the modification will be incorporated into the permit as a Significant Permit Modification under 326 IAC 2-7-12(d), because the modification to the Part 70 operating permit requires a case by case-by-case determination of an emission limitation and does not qualify as minor permit modification or as administrative amendment.

Permit Level Determination – PSD Actual to Projected Actual Test

The Permittee has provided information as part of the application for this approval that based on Actual to Projected Actual test in 326 IAC 2-2-2(d)(3), this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. The applicant will be required to keep records and report in accordance with Source obligation in 326 IAC 2-2-8. See Appendix A of this Technical Support Document for detailed emission calculations.

	Potential to Emit (ton/yr)							
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**VOC**	**CO**	**NO_X**	**GHGs**
Baseline-Actual	401.40	60.30	60.30	0.00	0.00	0.00	0.00	0.00
Projected-Actual	421.47	63.30	63.30	0.00	0.00	0.00	0.00	0.00
Net Change	20.07	3.00	3.00	0.00	0.00	0.00	0.00	0.00
PSD Significant Level	25	15	10	40	40	100	40	75,000 CO_2e

*$PM_{2.5}$ listed is direct $PM_{2.5}$.

Based on this analysis, this modification to an existing major stationary source is not major because the emissions increases are less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

NSPS:

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

NESHAP:

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

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

CAM Applicability Analysis

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (ton/yr)	Controlled PTE (ton/yr)	Part 70 Major Source Threshold (ton/yr)	CAM Applicable (Y/N)	Large Unit (Y/N)
Each Sand Mixer PM	Baghouse	Y	1171.9	5.9	100	Y	N
Each Sand Mixer PM10	Baghouse	Y	175.8	0.9	100	Y	N
Each Sand Mixer PM2.5	Baghouse	N	175.8	0.9	100	N	N
Each Sand Mixer PM10	Baghouse	Y	175.8	0.9	100	Y	N
Metal Separation & Sand cooler PM	Baghouse	Y	1597.9	8.0	100	Y	N
Metal Separation & Sand cooler PM10	Baghouse	Y	239.7	1.2	100	Y	N
Metal Separation & Sand cooler PM2.5	Baghouse	N	239.7	1.2	100	N	N
Metal Separation & Sand cooler PM2.5	Baghouse	N	239.7	1.2	100	N	N
Return Sand Distribution Conveyor PM	Baghouse	Y	1026.2	5.1	100	Y	N
Return Sand Distribution conveyor PM10	Baghouse	Y	591.3	3.0	100	Y	N

CAM Applicability Analysis							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
Return Sand Distribution conveyor PM2.5	Baghouse	N	591.3	3.0	100	N	N
250 ton return storage bin PM	Baghouse	Y	341.3	1.7	100	Y	N
250 ton return storage bin PM10	Baghouse	Y	51.2	0.3	100	Y	N
250 ton return storage bin PM2.5	Baghouse	N	51.2	0.3	100	N	N

These units are subject to PM/PM10 emission limitations pursuant to 326 IAC 2-2.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the mullors upon start-up, to the metal separation and sand cooler, to the return sand distribution conveyor, and to the 250 ton return storage bin for PM and PM10.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)
PSD applicability is discussed under the Permit Level Determination – PSD section.

326 IAC 6-3-2 (Particulate Emission Limitations from Manufacturing Processes)
The sand handling system (EU-1a) is subject to Best Available Control Technology (BACT) 326 IAC 2-2-3 for PM. Therefore, pursuant to 326 IAC 6-3-1(c)(1), this rule shall not apply.

326 IAC 7-1.1(Sulfur Dioxide)
The sand mullors are not subject to the requirements of 326 IAC 7-1.1 because there are no SO2 emissions from any of the emission units.

326 IAC 8-1-6 (General Reduction Requirements - BACT)
The sand mullors are not a source of VOC emissions and therefore not subject to the requirements of 326 IAC 8-1-6.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will

arise through a source's failure to take the appropriate corrective actions within a specific time period.

Compliance Determination Requirements
There are no changes to the Compliance Determination Requirements as a result of this modification.

Compliance Monitoring Requirements
The compliance monitoring requirements applicable to the baghouse controlling the sand mullors are as follows:

Unit	Monitoring Requirement 1	Monitoring Requirement 2
Sand mullors	Visible Emission Notations	Baghouse Pressure Drop

These monitoring conditions are necessary because the baghouse for the sand mullors must operate properly to ensure compliance with 326 IAC 2-2-3 (BACT) limits and 40 CFR 64 for PM/PM10.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 033-21760-00042. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change No.1: To incorporate the replacement of the sand mixers, Conditions A2 and D.4 are changed as follows:

A.2 Emission Units & Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][26 IAC 2-7-5(15)]

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

…

After Modification 033-28412-00042

…

(o) ~~One (1) sand handling system; identified as EU-1a; constructed in 1995; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour; emissions controlled by baghouse DC-1, which exhausts to stack S-1.~~
Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

…

Before the operations of Baghouse DC-8 and Stack S-8

SECTION D.4

FACILITY OPERATION CONDITIONS

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

…

(p) ~~One (1) sand handling system; identified as EU-1a; constructed in 1995; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour; emissions controlled by baghouse DC-1 which exhausts to stack S-1.~~
Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1. The sand handling system is described as follows:

1. **Metal Separation controlled by baghouse DC-5**
2. **Sand multi-cooler controlled by baghouse DC-5**
3. **Return sand conveyor (no real collection)**
4. **Return sand distribution conveyor controlled by baghouse DC-1**
5. **Four (4) 250 ton return sand storage bins controlled by baghouse DC-1**
6. **Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10**

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

…

Effective after the operations of Baghouse DC-8 and Stack S-8

SECTION D.4

FACILITY OPERATION CONDITIONS

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

(n) One (1) shot blast system; consisting of four (4) shot blast units; identified as EU-16 through EU-19; constructed in 1999; a total nominal capacity of 27 tons of iron castings per hour; a total maximum capacity of 32 tons of iron castings per hour; with emissions controlled by baghouse DC-3 which exhausts to stack S-15.

(o) ~~One (1) sand handling system; identified as EU-1a; constructed in 1995; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour; emissions controlled by baghouse DC-1 which exhausts to stack S-1.~~
Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1. The sand handling system is described as follows:

1. **Metal Separation controlled by baghouse DC-5**
2. **Sand multi-cooler controlled by baghouse DC-5**
3. **Return sand conveyor (no real collection)**
4. **Return sand distribution conveyor controlled by baghouse DC-1**
5. **Four (4) 250 ton return sand storage bins controlled by baghouse DC-1**
6. **Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10**

…

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

…

Change No.2: There may be times when it is unnecessary for a responsible official to "certify" additional information requested by IDEM; therefore, paragraph (a) of Condition B.7, Duty to Provide Information, is revised as follows:

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

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

(b) …

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

(a) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that,~~ **A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:**

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1 (34), and

(ii) the certification is 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 Permittee may use** the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

…

Change No.3: The Preventive Maintenance Plan requirements have been clarified as follows:

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

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

(a) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by the "responsible official" as defined by 326 IAC 2-7-1(34).

…

Change No.4: The emergency provisions requirements have been clarified as follows:

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

…

(b) …

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Northern Regional Office ~~within~~ **no later than** four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

…

(5) …

~~within~~ **no later than** two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

…

~~(h) The Permittee shall include all emergencies lasting one (1) hour or more in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by a "responsible official" need only reference the date of the original report.~~

Change No. 5: IDEM has removed the Condition B.15, Deviations from Permit Requirements and Conditions, and moved the requirements to Condition C.19, General Reporting Requirements, as follows:

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

~~(a) Deviations from any permit requirements for any deviation for which a report is specifically required under Section D (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. Notwithstanding this condition, a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.~~

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

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

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported **except that 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**. 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~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**

(b) ~~The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to~~ **The address for report submittal is**:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

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

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

Reports required in this part shall be submitted to:

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

(~~h~~**g**) 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.

Change No. 6: The Permit Modification, Reopening, Revocation and Reissuance, or Termination provisions have been clarified as follows:

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit.
[326 IAC 2-7-5(6)(C)] The notification by the Permittee does require ~~the~~ **a** certification **that meets the definition of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

Change No. 7: The Permit Renewal requirements have been clarified as follows:

B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

(b) …

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified**, pursuant to 326 IAC 2-7-4(a)(2)(D),** in writing by IDEM, OAQ any additional information identified as being needed to process the application.

Change No. 8: The words "or notice" have been added to Condition B.19(a) as follows:

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

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

(b) …

Change No. 9: The Operational Flexibility provisions have been clarified as follows:

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) …

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

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

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

(3) Any change in emissions; and

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

…

Change No. 9: The Transfer of Ownership or Operational Control provisions have been clarified as follows:

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) …

(b) …

The application which shall be submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

…

Change No. 10: The Opacity requirements have been clarified as follows:

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in **326 IAC 5-1-1 (Applicability) and** 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.

Change No. 11: The Incineration requirements have been clarified as follows:

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

The Permittee shall not operate an incinerator ~~or incinerate any waste or refuse~~ except as provided in 326 IAC 4-2 ~~and 326 IAC 9-1-2~~ **or in this permit**. **The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.**

Change No. 12: The Performance Testing requirements have been clarified as follows:

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

(a) ~~Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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~~ **For performance testing required by this permit, 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 **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ a "responsible official" as defined by 326 IAC 2-7-1(34).

…

Change No. 13: The Compliance Monitoring requirements have been clarified as follows:

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

~~Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:~~

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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~~ **a** certification the **meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

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

Change No. 14: The general requirements for Monitoring Methods were removed from Section C as follows (This provision will be included as needed in Section D of the permit.):

~~C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~

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

Change No. 15: IDEM is revising Condition C.14 as follows:

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) ~~Upon detecting an excursion or exceedance, t~~**T**he Permittee shall **take reasonable response steps to** 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 **excess** 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~~**The response** may include, but ~~are~~ **is** 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~~ **normal or usual manner of operation**.

(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 **necessarily** limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall ~~maintain the following records:~~ **record the reasonable response steps taken.**

~~(1) monitoring data;~~

~~(2) monitor performance data, if applicable; and~~

~~(3) corrective actions taken.~~

Change No. 16: IDEM is revising Condition C.15 as follows:

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the ~~Permittee shall take appropriate response actions. The~~ Permittee shall submit a description of ~~these~~ **its** response actions to IDEM, OAQ, ~~within~~ ~~thirty (30)~~ **no later than** seventy-five (75) days ~~of receipt~~ **after the date** 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~~ **no later than** one hundred ~~twenty (120)~~ **eighty (180)** 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) ...

The response action documents submitted pursuant to this condition do require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

Change No. 17: IDEM is revising Condition C.16 as follows:

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

~~(a)~~ In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2010 and every three (3) years thereafter, the Permittee shall submit ~~by~~ **no later than** July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(10)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

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

Change No. 18: The General Record Keeping requirements have been revised as follows:

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) ...

(b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required**, the Permittee shall be allowed up to** ~~shall be implemented within~~ ninety (90) days ~~of~~ **from the date of** permit issuance **or the date of initial start-up, whichever is later, to begin such record keeping**.

(c) - (d) ...

Change No. 19: The Stratospheric Ozone Protection requirements have been revised as follows:

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

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

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

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

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

Change No. 20: IDEM decided to make the following changes to the Preventative Maintenance Plan conditions throughout Section D of the permit:

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

Change No. 21: IDEM decided to make the following changes throughout Section D of the permit:

D.1.7 Visible Emissions Notations

…

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps ~~in accordance with Section C – Response to Excursions and Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions and Exceedances,~~ shall be considered a deviation from this permit. **Section C – Response to Excursions and Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.1.8 Baghouse Parametric Monitoring

…

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 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~~. **Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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.

..

D.1.9 Broken or Failed Bag Detection

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

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

(c) For multi-compartment units, If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall

also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.3.8 Visible Emissions Notations

…

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps ~~in accordance with Section C – Response to Excursions and Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions and Exceedances,~~ shall be considered a deviation from this permit. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.3.9 Baghouse Parametric Monitoring

…

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 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~~. **Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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.

…

D.3.10 Broken or Failed Bag Detection

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

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

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

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

D.4.4 Visible Emissions Notations **[40 CFR 64]**

…

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps ~~in accordance with Section C – Response to Excursions and Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions and Exceedances,~~ shall be considered a deviation from this permit. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.4.5 Baghouse Parametric Monitoring **[40 CFR 64]**

…

(b) When for any one reading, the pressure drop is outside the normal range of 1.5 to 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~~. **Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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.

…

D.4.6 Broken or Failed Bag Detection **[40 CFR 64]**

(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 process 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).

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

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

Change No. 22: IDEM is modifying the Compliance Determination Requirements as follows:

D.1.5 Particulate and VOC Control

(a) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Conditions D.1.1 and D.1.4, baghouse DC-8, used to control particulate emissions, shall be in operation **and control** at all times EU-2, EU-3a1, EU-3a2, EU-3a3, and EU-3a4 are in operation.

(b) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Conditions D.1.1 and D.1.4, baghouse DC-2 and DC-8, used to control particulate emissions, shall be in operation **and control** at all times EU-2 is in operation.

(c) Pursuant to 326 IAC 2-2 and 326 IAC 8-1-6, and in order to **ensure compliance** ~~comply~~ with Condition D.1.2, the greensand molding materials, percent loss on ignition (%LOI), shell and phenolic urethane cold box core resins and percent resin in the cores shall be consistent with the respective characteristics used during validation testing.

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) ~~Within 180 days of the start of operation of baghouse DC-8, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.1.1, the Permittee shall perform PM/PM_{10} testing for EU-2, EU-3a1, EU-3a2, EU-3a3, EU-3a4, and EU-6 utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) ~~No later than November 3, 2010, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.1.3, the Permittee shall perform CO testing for EU-2, EU-3a1, EU-3a2, EU-3a3, EU-3a4, EU-3b1, EU-3b2, EU-3b3, EU-3b4, EU-4 and EU-5a utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(c) ~~Within 180 days of the start of operation of baghouse DC-8, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.1.4, the Permittee shall perform lead testing for EU-2, EU-3a1, EU-3a2, EU-3a3 and EU-3a4 utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

…

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

(a) ~~No later than November 3, 2010, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.2.1, the Permittee shall perform PM/PM_{10} testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) In order to demonstrate **the** compliance **status** with Condition D.2.2, the Permittee shall perform the VOC testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 required by Condition D.1.6(d).

(c) In order to demonstrate **the** compliance **status** with Condition D.2.3, the Permittee shall perform the CO testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 required by Condition D.1.6(b).

(d) ~~Within 180 days after issuance of this permit, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.2.4, the Permittee shall perform lead testing for EU-3b1, EU-3b2, EU-3b3, and EU-3b4 utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

D.3.6 Particulate Control

(a) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Condition D.3.4(a), baghouse DC-4, used to control particulate emissions, shall be in operation **and control** at all times EU-4 is in operation.

(b) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Condition D.3.4(b), baghouse DC-5, used to control particulate emissions, shall be in operation **and control** at all times EU-5a and EU-5bc are in operation.

D.3.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) ~~No later than November 3, 2010, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.3.1, the Permittee shall perform PM/PM_{10} testing for EU-4, EU-5a and EU-5bc utilizing methods approved by the Commissioner. PM_{10} includes filterable and condensable PM_{10}. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

(b) In order to demonstrate **the** compliance **status** with Condition D.3.2, the Permittee shall perform the VOC testing for EU-4 and EU-5a required by Condition D.1.6(d).

(c) In order to demonstrate **the** compliance **status** with Condition D.3.3, the Permittee shall perform the CO testing for EU-4 and EU-5a required by Condition D.1.6(b).

(d) ~~Within 180 days after issuance of this permit, i~~**I**n order to demonstrate **the** compliance **status** with Condition D.3.4, the Permittee shall perform lead testing for EU-4 and EU-5a utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test.

D.4.3 Particulate Control

(a) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Condition D.4.1, baghouse DC-6, used to control particulate emissions, shall be in operation **and control** at all times EU-6 is in operation.

(b) Pursuant to 326 IAC 2-2, and in order to **ensure compliance** ~~comply~~ with Condition D.4.1, baghouse DC-3, used to control particulate emissions, shall be in operation **and control** at all times EU-16 through EU-19 are in operation.

….

D.6.4 Particulate Control

(a) In order to **ensure compliance** ~~comply~~ with Condition D.6.1, baghouse System 20 shall be in operation **and control** at all times when EU-20 is in operation.

….

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

~~Within 180 days after startup of the ductile iron conversion (DIC) process (EU-20), t~~**T**he Permittee shall perform inlet and outlet PM and PM_{10} testing on baghouse System 20 controlling the ductile iron conversion (DIC) process (EU-20) using methods as approved by the Commissioner, in order to demonstrate **the** compliance **status** with the PM and PM_{10} limits. PM_{10} includes filterable and condensable emissions. These tests shall be repeated at least once every five (5) years after completion of the most recent valid compliance stack test. Testing shall be conducted in accordance with Section C - Performance Testing.

Change No. 23: IDEM is modifying the Record Keeping and Reporting Requirements as follows:

D.1.10 Record Keeping Requirements

(a) **In order to document the compliance status with**~~To document compliance with~~ Condition D.1.1(d), the Permittee shall maintain records of the total metal production of the electric induction furnaces (comprising EU-2).

(b) **In order to document the compliance status with**~~To document compliance with~~ Condition D.1.2, the Permittee shall maintain records of the following:

(1) The resin content of the shell and phenolic urethane cold box cores, and

(2) The %LOI of the greensand mold system.

(c) **In order to document the compliance status with**~~To document compliance with~~ Condition D.1.6, the Permittee shall maintain records of the results from testing required by that condition.

(d) **In order to document the compliance status with**~~To document compliance with~~ Condition D.1.7, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) **In order to document the compliance status with**~~To document compliance with~~ Condition D.1.8, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

….

D.1.11 Reporting Requirements

A quarterly summary of the information to document **the** compliance **status** with the twelve-month rolling limit in Condition D.1.1(d) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, ~~within~~ **no later than** thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

D.2.7 Record Keeping Requirements

(a) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.2.6, the Permittee shall maintain records of the results from testing required by that condition.

D.3.11 Record Keeping Requirements

(a) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.3.7, the Permittee shall maintain records of the results from testing required by that condition.

(b) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.3.8, the Permittee shall maintain records of the visible emission notations required by that condition. 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) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.3.9, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure

drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

….

D.4.7 Record Keeping Requirements

(a) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.4.4, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) **In order to document the compliance status with** ~~To document compliance with~~ Condition D.4.5, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

…

D.6.7 Record Keeping Requirements

(a) **In order to document the compliance status** ~~To document compliance with~~ condition D.6.1, the permittee shall maintain records of the total ductile iron produced each month (comprising EU-20).

(b) **In order to document the compliance status** ~~To document compliance with~~ Condition D.6.5, the Permittee shall maintain records of the results from the testing required by that condition.

(c) **In order to document the compliance status** ~~To document compliance with~~ Condition D.6.6, the Permittee shall maintain records of the fan amperage required by that condition. The Permittee shall include in its daily record when a fan amperage is not taken and the reason for the lack of a fan amperage (e.g. the process did not operate that day).

…

D.6.8 Reporting Requirements

A quarterly summary of the information to document **the** compliance **status** with the twelve-month rolling limit in Condition D.6.1(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Change No. 24: The Emergency Occurrence Reporting form is changed as follows:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

...

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

…

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

☐ This is an emergency as defined in 326 IAC 2-7-1(12) • The Permittee must notify the Office of Air Quality (OAQ), ~~within~~ **no later than** 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~~ **no later than** two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

…

~~A certification is not required for this report.~~

Change No. 25: The Quarterly Reports are changed as follows:

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

Part 70 Quarterly Report

…

~~Attach a signed certification to complete this report.~~

Change No. 26: The Quarterly Deviation report is changed as follows:

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

…

~~Attach a signed certification to complete this report.~~

Change No. 27: IDEM is making the following changes to descriptive information:

A.2 Emission Units & Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][26 IAC 2-7-5(15)]

...

After Modification 033-28412-00042

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; modified in 2009, a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-~~2~~**8**; emissions exhaust to stack S-~~2~~**8**. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

...

(g) One (1) Line 2 casting cooling operation; identified as EU-3b2; constructed in 1995; a nominal capacity of ~~9~~ **10** tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

...

(k) One (1) Line 1 and Line 2 shakeout operation; identified as EU-5a; constructed in 1995; a nominal capacity of ~~19~~ **20** tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-5; emissions exhaust to stack S-5.

...

(o) Sand handling system; identified as (EU-1a); constructed in 1995 and modified in 2011; a nominal capacity of 220 tons of sand per hour; a maximum capacity of 250 tons of sand per hour and exhausting to stack S-1 and stack S-10. The sand handling system is described as follows:

1. Metal Separation controlled by baghouse DC-5
2. Sand multi-cooler controlled by baghouse DC-5
3. Return sand conveyor (no real collection)
4. Return sand distribution conveyor controlled by baghouse DC-1
5. Four (4) 250 ton return sand storage bins controlled by baghouse DC-1
6. Four (4) sand mullors (Simpson 100B-250 Speedmullers) rated at 75 tons of sand per hour each and controlled by baghouse DC-10

...

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Melting, Pouring and Casting Operations

...

<u>Before Modification 033-28412-00042</u>

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-~~2~~ **8**; emissions exhaust to stack S-~~2~~ **8**. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

<u>After Modification 033-28412-00042</u>

(c) One (1) Line 2 pouring and casting operation; identified as EU-3a2; constructed in 1995; modified in 2009, a nominal capacity of 10 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-~~2~~ 8; emissions exhaust to stack S-~~2~~ **8**. EU-3a2 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

(d) One (1) Line 3 pouring and casting operation; identified as EU-3a3; constructed in 1995 and to be modified in 2008; a nominal capacity of 9 tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; particulate emissions controlled by baghouse DC-8; emissions exhaust to stack S-~~2~~ **8**. EU-3a3 is considered part of the affected source under 40 CFR Part 63, Subpart EEEEE.

...

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

SECTION D.2 FACILITY OPERATION CONDITIONS

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

...

(g) One (1) Line 2 casting cooling operation; identified as EU-3b2; constructed in 1995; a nominal capacity of ~~9~~ **10** tons of metal and 55 tons of sand per hour; a maximum capacity of 11.25 tons of metal and 62.5 tons of sand per hour; emissions exhaust to stack S-3b.

...

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(j) One (1) Line 3 and Line 4 shakeout operation; identified as EU-4; constructed in 1995; a nominal capacity of ~~19~~ **18** tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-4; emissions exhaust to stack S-4.

(k) One (1) Line 1 and Line 2 shakeout operation; identified as EU-5a; constructed in 1995; a nominal capacity of ~~18~~ **20** tons of metal and 110 tons of sand per hour; a maximum capacity of 22.5 tons of metal and 125 tons of sand per hour; particulate emissions controlled by baghouse DC-5; emissions exhaust to stack S-5.

...

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

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 033-30771-00042 and Significant Permit Modification No.033-30795-00042. The staff recommend to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Ghassan Shalabi 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) (234-5378) or toll free at 1-800-451-6027 extension (4-5378).

(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

Appendix A: Emission Calculations
Gray Iron Foundry

Company Name: Metal Technologies Auburn, LLC
Address City IN Zip: 1401 South Grandstaff Drive, Auburn IN 46706
Permit #: T033-30771-00042
Reviewer: Ghassan Shalabi
Date: 25-Aug-11

Permit Level Determination - 326 IAC 2-7-10.5									
Emission Unit ID#	Process Description	PM (TPY)	PM10 (TPY)	PM2.5 (TPY)	SO2	VOC	CO	NOX	CO2e
4 sand mullors	PTE of modification	1171.9	175.8	175.8	0	0	0	0	0

Net Change of emissions from 4 sand mullors as provided by Metal Technologies Auburn								
Process Description	PM (TPY)	PM10 (TPY)	PM2.5 (TPY)	SO2	VOC	CO	NOX	CO2e
Baseline-Actual	401.40	60.30	60.30	0.00	0.00	0.00	0.00	0.00
Projected-Actual	421.47	63.30	63.30	0.00	0.00	0.00	0.00	0.00
Net Change	20.07	3.00	3.00	0.00	0.00	0.00	0.00	0.00

Notes:
1- Baseline Emissions used a base period of June 2009 to June 2011. The baseline period analysis was provided by the Permittee
2- The Permittee stated as part of this application that the project is not significant for any NSR pollutants and does not trigger PSD review

Appendix A: Emission Calculations
Gray Iron Foundry

Company Name: Metal Technologies Auburn, LLC
Address City IN Zip: 1401 South Grandstaff Drive, Auburn IN 46706
Permit #: T033-30771-00042
Reviewer: Ghassan Shalabi
Date: 25-Aug-11

		Throughput sand (tons/hr)	PM Control (%)
Metal Seperation and Sand Multi-cooler		250.0	99.5%
PM AP-42 emission factor	3.6		
PM10 AP-42 emission factor	0.54		
Dust collection air flow	17180		
Total dust collection air flow for Sand Handling	42382		

	PM	PM10	PM2.5
Emission Factors (lb/ton sand handled)	1.5	0.22	0.22
Uncontrolled Potential To Emit (ton/yr)	1597.9	239.7	239.7
Controlled Potential to Emit (ton/yr)	8.0	1.2	1.2
Allowable Emissions (ton/yr)	2.80	2.80	2.80

		Throughput sand (tons/hr)	PM Control (%)
Return sand Ditribution conveyor		250.0	99.5%
PM AP-42 emission factor	3.6		
PM10 AP-42 emission factor	0.54		
Dust collection air flow	11033		
Total dust collection air flow for Sand Handling	42382		

	PM	PM10	PM2.5
Emission Factors (lb/ton sand handled)	0.9	0.54	0.54
Uncontrolled Potential To Emit (ton/yr)	1026.2	591.3	591.3
Controlled Potential to Emit (ton/yr)	5.1	3.0	3.0
Allowable Emissions (ton/yr)	2.80	2.80	2.80

		Throughput sand (tons/hr)	PM Control (%)
Return Sand Storage		250.0	99.5%
PM AP-42 emission factor	3.6		
PM10 AP-42 emission factor	0.54		
Dust collection air flow	3669		
Total dust collection air flow for Sand Handling	42382		

	PM	PM10	PM2.5
Emission Factors (lb/ton sand handled)	0.3	0.05	0.05
Uncontrolled Potential To Emit (ton/yr)	341.3	51.2	51.2
Controlled Potential to Emit (ton/yr)	1.7	0.3	0.3
Allowable Emissions (ton/yr)	2.80	2.80	2.80

		Throughput sand (tons/hr)	PM Control (%)
4 sand mullors		300.0	99.5%
PM AP-42 emission factor	3.6		
PM10 AP-42 emission factor	0.54		
Dust collection air flow	10500		
Total dust collection air flow for Sand Handling	42382		

	PM	PM10	PM2.5
Emission Factors (lb/ton sand handled)	0.9	0.13	0.13
Uncontrolled Potential To Emit (ton/yr)	1171.9	175.8	175.8
Controlled Potential to Emit (ton/yr)	5.9	0.9	0.9
Allowable Emissions (ton/yr)	2.80	2.80	2.80

Methodology:
PM emission factor was calculated as follows:
AP-42 Ch. 12.10 (Iron Foundries) * (dust collection air flow for the unit / dust collection air flow for sand handling operation)

PM10 emission factor was calculated as follows:
AP-42 Ch. 12.13 (Steel Foundries) * (dust collection air flow for the unit / dust collection air flow for sand handling operation)

Uncontrolled Potential to Emit (ton/yr) = Potential Throughput (ton/hr) x Emission Factor (lb pollutant/ton) x 8760 hr/yr x 1/2000 ton/lb
Controlled PM Potential to Emit = Uncontrolled PTE x (1-efficiency/100)
Allowable Emissions: Based on an operation's BACT limits (gr/dscf, lb/hr, lb/ton and production limitation; as applicable).
Allowable Emissions: 0.64 (lb/hr) * 8760 (hrs/yr) /2000 (lb/ton)

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Daniel Hollenbeck
Metal Technologies Auburn, LLC
1401 S Grandstaff Drive
Auburn, IN 46706

DATE: November 21, 2011

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

SUBJECT: Final Decision
Significant Source Modification
033-30771-00042

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Jeffrey L Turner – Secretary/PV Administration & General Counsel
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

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

November 21, 2011

TO: Eckhart Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Metal Technologies Auburn, LLC
Permit Number: 033-30771-00042

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 11/21/2011 Metal Technologies Auburn, LLC 033-30771-00042 Final			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Daniel Hollenbeck Metal Technologies Auburn, LLC 1401 S Grandstaff Dr Auburn IN 46706 (Source CAATS) via confirmed delivery									
2		Jeffrey L Turner Secretary/VP Admin & General Counsel Metal Technologies Auburn, LLC 1401 S Grandstaff Dr Auburn IN 46706 *(RO CAATS)*									
3		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 *(Affected Party)*									
4		Ms. Karen Sponhower 803 S. Van Buren Auburn IN 46706 *(Affected Party)*									
5		DeKalb County Commissioners 100 South Main Street Auburn IN 46706 *(Local Official)*									
6		Ms. Diane Leroy 303 N. Jackson St. Auburn IN 46706 *(Affected Party)*									
7		Mr. Barry Fordanish R#3 1480 CR 66 Auburn IN 46706 *(Affected Party)*									
8		Mr. Dave Weilbaker 1423 Urban Ave Auburn IN 46706 *(Affected Party)*									
9		Auburn City Council and Mayors Office P.O. Box 506 Auburn IN 46706-0506 *(Local Official)*									
10		Dekalb County Health Department 220 E 7th St #110 Auburn IN 46706 *(Health Department)*									
11		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 *(Affected Party)*									
12		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 *(Affected Party)*									
13		21Alive P.O. Box 2121 Fort Wayne IN 46801 (Affected Party)									
14		Brown & Sons Fuel Co. P.O. Box 665 Kendallville IN 46755 *(Affected Party)*									
15		Mr. Marty K. McCurdy 2550 County Road 27 Waterloo IN 46793 *(Affected Party)*									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
14			

FACSIMILIE OF PS Form 3877

Mail Code 61-53

IDEM Staff	GHOTOPP 11/21/2011 Metal Technologies Auburn, LLC 033-30771-00042 Final			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Eckhart Public Library 603 S. Jackson Street Auburn IN 46706 (Library)									
2		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 *(Affected Party)*									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

FACSIMILIE OF PS Form 3877