



# 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](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: September 20, 2011

RE: Gartland Foundry Company / 167-30601-00007

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 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

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



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## Significant Permit Modification to a Part 70 Operating Permit OFFICE OF AIR QUALITY

**Gartland Foundry Company  
330 Grant Street  
Terre Haute, Indiana 47802**

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

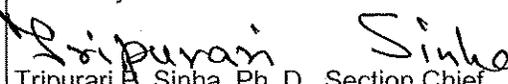
The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit,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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

|  |                                   |
|--|-----------------------------------|
| Operation Permit No.: T167-26842-00007   |                                   |
| Issued by/Original Signed By:  | Issuance Date: October 24, 2008   |
| Tripurari P. Sinha, Ph. D., Section Chief<br>Permits Branch<br>Office of Air Quality | Expiration Date: October 24, 2013 |

1<sup>st</sup> Significant Permit Modification No.: T167-27191-00007; Issuance Date: February 6, 2009

2<sup>nd</sup> Significant Permit Modification No.: T167-29422-00007; Issuance Date: March 8, 2011

|   |                                   |
|---|-----------------------------------|
| 3 <sup>rd</sup> Significant Permit Modification No.: T167-30601-00007   |                                   |
| Issued by:  | Issuance Date: September 20, 2011 |
| <br>Tripurari P. Sinha, Ph. D., Section Chief<br>Permits Branch<br>Office of Air Quality | Expiration Date: October 24, 2013 |

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Certification

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Quarterly Reports

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Attachment A - 40 CFR 63, Subpart ZZZZZ

Attachment B - 40 CFR 60, Subpart IIII

Attachment C - 40 CFR 63, Subpart ZZZZ

## 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)]

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The Permittee owns and operates a stationary grey and ductile iron foundry for the manufacture of iron castings.

|                              |  |
|------------------------------|--|
| Source Address:              | 330 Grant Street, Terre Haute, Indiana 47802   |
| General Source Phone Number: | (812) 232-0226   |
| SIC Code:                    | 3321   |
| County Location:             | Vigo   |
| Source Location Status:      | Attainment for all criteria pollutants   |
| Source Status:               | Part 70 Operating Permit Program<br>Major Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>1 of 28 Source Categories |

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

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

- (a) One (1) Scrap/Charge Handling operation for the electric induction furnaces, identified as EU120, constructed in 1995, with a maximum capacity of 10 tons of metal per hour, with emissions uncontrolled. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (b) One (1) holding furnace, approved for construction in 2008, identified as EU160, with uncontrolled emissions, exhausting indoors.
- (c) Electric Induction Furnace #3, identified as EU130, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (d) Electric Induction Furnace #4, identified as EU140, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (e) Magnesium Treatment (Inoculation), with a maximum capacity of 10 tons of metal per hour, identified as EU150, constructed in 1986, utilizing a closed ladle, with emissions exhausting to general ventilation.
- (f) One (1) electrostatic spray booth, identified as prime paint line EU710, constructed in 1983, with a maximum capacity of 500 grey iron castings per hour, with dry filters for control of particulate matter overspray, and exhausting to stack SC-6.
- (g) Floor pouring/cooling process, identified as EU540, constructed in 1902, with a maximum capacity of 11 tons of metal per hour, with emissions uncontrolled.

- (h) One Sinto pouring/cooling process, identified as EU550, constructed in 1999, with a maximum capacity of 5.0 tons of metal per hour, with emissions uncontrolled.
- (i) One (1) Sinto pouring/cooling process, approved for construction in 2008, identified as EU560, with a maximum capacity of 6 tons of metal per hour, with uncontrolled emissions, exhausting indoors.
- (j) Casting shakeout, identified as EU570, constructed in 2001, with a maximum capacity of 80 tons of sand per hour and 18 tons of metal per hour, with emissions controlled by a Wheelabrator-88 baghouse (BH3) and by the Hosakawa baghouse (BH5), and exhausting to stacks SC-4 and SC-5.
- (k) Sand handling systems including:
  - 1. Sand Muller, identified as EU591, constructed in 1997, with a maximum capacity of 100 tons per hour, and sand conveyor, constructed in 1970, identified as EU592, using Hosakawa baghouse (BH5) for control, and exhausting to stack SC-5.
  - 2. Mold making process including:
    - (A) two (2) Squeezer mold machines, collectively identified as EU520, constructed in 1902;
    - (B) three (3) Rotolift mold machines, collectively identified as EU521, constructed in 1902;
    - (C) one (1) Sinto FBOIII mold machine identified as EU530, constructed in 2000; and
    - (D) One (1) Sinto FBox mold machine, approved for construction in 2008, identified as EU531, with a maximum capacity of 26.4 tons of sand molds per hour, with uncontrolled emissions, exhausting indoors.
- (l) Casting Finishing:
  - 1. One (1) Spin Blast, identified as EU610, constructed in 1986, with a maximum capacity of 5 tons per hour of metal castings, using Wheelabrator-35 baghouse (BH2) for control and exhausting to stack SC-7.
  - 2. One (1) Tumble Blast, identified as EU620, constructed in 1988, with a maximum capacity of 5 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5.
  - 3. One (1) Tumbler, identified as EU630, constructed in 1989, with a maximum capacity of 1 ton per hour of metal castings using Wheelabrator-35 baghouse (BH2) for control and exhausting to stack SC-7.
  - 4. Four (4) Snag Grinders, identified as EU640, one approved for construction in 1985, one approved for construction in 1991, and two approved for construction in 2008 to replace two constructed in 1975, each with a maximum capacity of 2 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5.
  - 5. Six (6) self-contained finish grinders, identified as EU650, constructed in 1990, each with a maximum capacity of 2 tons per hour of metal castings, with downdraft tables using baffles for control and exhausting to general ventilation.

(m) Core making systems including:

1. Three (3) Shell Core Machines, identified as EU320, EU321, and EU322, constructed in 1979, each with a maximum capacity of 1 ton per hour of sand, utilizing no controls and exhausting to general ventilation;
2. One (1) Oil Core Making Process, identified as EU410, constructed in 1902, utilizing a mixer and associated core boxes with a maximum capacity of 0.25 tons per hour of sand, utilizing no controls and exhausting to general ventilation; and
3. Core Wash Process, identified as EU730, constructed in 1902, with a maximum capacity of 1 ton per hour of sand, utilizing no controls and exhausting to general ventilation.

(n) Isocure Core making systems including:

1. Isocure Core Machine, identified as EU 222, constructed in 1994, fed by mixer 2, with a maximum capacity of 0.525 tons of sand/resin mixture per hour, a maximum of 21 pounds of resin per hour, and a maximum of 1.05 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
2. Cold Box (Isocure) Core Machine, identified as CBCM-1, constructed in 2003, fed by mixer 2, with a maximum capacity of 1 ton of sand/resin mixture per hour, a maximum of 40 pounds of resin per hour, and a maximum of 2 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
3. Cold Box (Isocure) Core Machine, identified as CBCM-2, constructed in 2003, fed by mixer 2, with a maximum capacity of 1 ton of sand/resin mixture per hour, a maximum of 40 pounds of resin per hour, and a maximum of 2 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
4. Sand Mixer, identified as mixer 2, constructed in 2003, with a maximum capacity of 2.525 tons of sand/resin mixture per hour.
5. Sand heater, constructed in 1978
6. Sand Silo, with a maximum capacity of 165 tons of sand, loaded via pneumatic conveying system including an integral bin vent, utilizing no control.

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

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

- (a) One (1) emergency diesel generator, identified as EU800, constructed in 2011, rated at 346 horsepower, with an engine displacement volume less than 10 liters per cylinder and exhausting to the atmosphere. [Under 40 CFR 60, Subpart IIII, and 40 CFR 63, Subpart ZZZZ, this process is considered an affected unit.]
- (b) 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]
- (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (d) 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. [326 IAC 6-3-2]

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

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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]

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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 Revocation of Permits [326 IAC 2-1.1-9(5)]

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit 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.

### B.3 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)]

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- (a) The Part 70 Operating Permit, T167-26842-00007, is issued for a fixed term of five (5) years 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.4 Term of Conditions [326 IAC 2-1.1-9.5]

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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.5 Enforceability [326 IAC 2-7-7]

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

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

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

### B.8 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January-1-to December 31 of the previous year, and shall be submitted 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 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.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]**

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- (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. The PMPs do not require a certification that meets the requirement 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.12 Emergency Provisions [326 IAC 2-7-16]**

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- (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, 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 and Enforcement Branch), or  
Telephone Number: 317-233-0178  
Facsimile Number: 317-233-6865

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

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

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
- (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T167-26842-00007 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.15 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.16 [Reserved]:

B.17 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.18 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]**

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- (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  
Permits 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.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]**

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

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

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- (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.22 Source Modification Requirement [326 IAC 2-7-10.5]

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- (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.

**B.23 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]**

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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.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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

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

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

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

**C.2 Opacity [326 IAC 5-1]**

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

**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 that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

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

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

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

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- (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.

### Compliance Requirements [326 IAC 2-1.1-11]

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

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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)]

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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 that 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 [Reserved]

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

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

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

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

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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]

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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, is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 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 after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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]**

Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 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]

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- (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(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;
- (ii) Projected actual emissions;
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) 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]

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- (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 not later than thirty (30) days after 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 (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year, shall contain the following:
- (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction project.

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**

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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 applicable standards for recycling and emissions reduction.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) Scrap/Charge Handling operation for the electric induction furnaces, identified as EU120, constructed in 1995, with a maximum capacity of 10 tons of metal per hour, with emissions uncontrolled. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (b) One (1) holding furnace, approved for construction in 2008, identified as EU160, with uncontrolled emissions, exhausting indoors.
- (c) Electric Induction Furnace #3, identified as EU130, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (d) Electric Induction Furnace #4, identified as EU140, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected unit]
- (e) Magnesium Treatment (Inoculation), with a maximum capacity of 10 tons of metal per hour, identified as EU150, constructed in 1986, utilizing a closed ladle, with emissions exhausting to general ventilation.

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

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

#### D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]

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

- (a) The input of metal to the induction furnaces (EU130 and EU140 combined) shall not exceed 18,000 tons per 12 consecutive month period with compliance determined at the end of each month.
- (b) The PM emissions from the induction furnaces (#3 and #4) shall not exceed 1.0 pounds per ton of metal melted.
- (c) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the induction furnaces (#3 and #4) shall not exceed 1.0 pounds per ton of metal melted.
- (d) The PM emissions from the scrap/charge handling system shall not exceed 0.60 pounds per ton of metal.
- (e) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the scrap/charge handling system shall not exceed 0.36 pound per ton of metal.
- (f) The input of metal to the Magnesium Treatment (EU150) shall not exceed 9,000 tons of iron per 12 consecutive month period with compliance determined at the end of each month.

- (g) The PM emissions from Magnesium Treatment shall not exceed 1.8 pounds per ton of metal.
- (h) The PM<sub>10</sub>/ PM<sub>2.5</sub> emissions from Magnesium Treatment shall not exceed 1.8 pounds per ton of metal.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the emission units constructed before 2008.

#### D.1.2 Prevention of Significant Deterioration (PSD) Minor Limit for 2008 Modification [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the T167-26842-00007, the following conditions shall apply:

- (a) The amount of metal melted in the holding furnace EU160 shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month.
- (b) The PM emissions from the holding furnace EU160 shall not exceed 0.90 pounds per ton of metal melted.
- (c) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the holding furnace EU160 shall not exceed 0.86 pounds per ton of metal melted.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) to less than 100 tons per year for the 2008 modification. Compliance with these limits makes modification T167-26842-00007 a minor modification to an existing minor source, and renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification approved by T167-26842-00007.

#### D.1.3 Particulate Matter Limitations [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(e), the PM emissions from the induction furnaces #3 and #4 (EU130 and EU140), and the holding furnace EU160 shall not exceed 0.07 grain per dry standard cubic foot.
- (b) Pursuant to 326 IAC 6.5-1-2, particulate matter (PM) emissions from the scrap and charge handling (EU120) and magnesium treatment process (EU150) shall each not exceed 0.03 grains per dry standard cubic foot.

#### D.1.4 Hazardous Air Pollutant (HAP) Emissions [40 CFR 63]

- (a) The combined Metallic HAP emissions (chromium compounds, cobalt compounds, nickel compounds, arsenic compounds, cadmium compounds, selenium compounds, manganese compounds, and antimony compounds) from the induction furnaces (#3 and #4) shall not exceed 0.02843 pounds per ton of metal melted.
- (b) The combined Metallic HAP emissions (chromium compounds, cobalt compounds, nickel compounds, arsenic compounds, cadmium compounds, selenium compounds, manganese compounds, and antimony compounds) from Magnesium Treatment (Inoculation) shall not exceed 0.05684 pounds per ton of metal.

Compliance with these limits (combined with other limits throughout) shall limit the source wide potential to emit of each individual HAP to less than 10 tons per year, and to limit source wide combined HAPs to less than 25 tons per year. Compliance with these limits renders 40 CFR 63, Subpart EEEEE not applicable.

#### D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

### Compliance Determination Requirements

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

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No later than September 7, 2011 and in order to demonstrate the compliance status with Condition D.1.1, the Permittee shall perform PM, PM<sub>10</sub> and PM<sub>2.5</sub> testing on Electric Induction Furnaces #3 and #4, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

#### D.1.7 Particulate Matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub> Control)

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- (a) The baghouse for PM, PM<sub>10</sub> and PM<sub>2.5</sub> control shall be in operation and control emissions from the Electric Induction Furnaces #3 and #4 at all times they are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

#### D.1.8 Visible Emissions Notations

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- (a) Visible emission notations of the Electric Induction Furnace stack (SC-2) exhaust 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. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. 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.1.9 Parametric Monitoring

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The Permittee shall record the pressure drop across the Steelcraft baghouse (BH1) used in conjunction with the Electric Induction Furnaces #3 and #4, at least once per day when either Electric Induction Furnace is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take a 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.

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

#### D.1.10 Broken or Failed Bag Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated processes 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 emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

#### D.1.11 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the Electric Induction Furnace stack exhaust once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
- (b) To document the compliance status with Condition D.1.9, the Permittee shall maintain records once per day of the pressure drop during normal operation. 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) To document the compliance status with Conditions D.1.1 and D.1.2, the Permittee shall maintain monthly records of the following:
  - (1) The weight of metal melted in the electric induction furnaces #3 and #4.
  - (2) The weight of metal melted in the holding furnace (EU160); and
  - (3) The weight of iron throughput to the magnesium treatment (inoculation) process (EU150).

The records shall be complete and sufficient to establish compliance with the throughput limitations in Conditions D.1.1 and D.1.2.

- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

#### D.1.12 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1 and D.1.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. 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

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (f) One (1) electrostatic spray booth, identified as prime paint line EU710, constructed in 1983, with a maximum capacity of 500 grey iron castings per hour, with dry filters for control of particulate matter overspray, and exhausting to stack SC-6.

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

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

#### D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

The volatile organic compound (VOC) content of coating delivered to the applicator at Spray Booth EU710 shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for extreme performance coatings.

#### D.2.2 Emission Minimization [326 IAC 8-2-9]

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

#### D.2.3 Particulate Matter (PM) Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) emissions from the electrostatic spray booth (EU710) shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.

#### D.2.4 Hazardous Air Pollutant (HAP) Limit [40 CFR 63]

The Xylene input to the electrostatic spray booth (EU710) shall not exceed 9.735 tons per 12 consecutive month period with compliance determined at the end of each month. Compliance with this limit makes 40 CFR 63, Subpart EEEEE not applicable.

#### D.2.5 PSD Minor Limit [326 IAC 2-2]

The VOC input to the electrostatic spray booth (EU710) shall not exceed 48 tons per 12 consecutive month period with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of volatile organic compounds from the entire source to less than 100 tons per year for units constructed prior to 2008. Compliance with these limits makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the emission units constructed prior to 2008.

#### D.2.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

### Compliance Determination Requirements

#### D.2.7 Volatile Organic Compounds (VOC)

Compliance with the VOC content limitations contained in Conditions D.2.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) using formulation data supplied by the coating manufacturer. However, IDEM, OAQ, reserve the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

#### D.2.8 Particulate Matter (PM) Control

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The dry filters for PM overspray control from Spray Booth EU710 shall be in operation at all times when the spray booth is in operation and exhausting to the outside atmosphere.

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

##### D.2.9 Monitoring

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- (a) Daily inspections shall be performed to verify the placement, integrity and pressure drop of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray booth stack (SC-6) while the spray booth is in operation. The Permittee shall take a reasonable response. 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.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. A pressure drop 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.

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

##### D.2.10 Record Keeping Requirements

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- (a) To document the compliance status with Conditions D.2.1 and D.2.5, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.1 and D.2.5. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.
  - (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on monthly basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (3) The cleanup solvent usage for each month; and
  - (4) The total VOC usage for each month
- (b) To document the compliance status with Condition D.2.4, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP usage limits and/or the HAP emission limits established in Condition D.2.4. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.
  - (1) The HAP content of each coating material and solvent used.

- (2) The amount of coating material and solvent less water used on monthly basis.
  - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
  - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
- (3) The cleanup solvent usage for each month; and
- (4) The total HAP usage for each month
- (c) To document the compliance status with Condition D.2.9, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

#### D.2.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.4 and D.2.5 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. 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.3

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (g) Floor pouring/cooling process, identified as EU540, constructed in 1902, with a maximum capacity of 11 tons of metal per hour, with emissions uncontrolled.
- (h) One Sinto pouring/cooling process, identified as EU550, constructed in 1999, with a maximum capacity of 5.0 tons of metal per hour, with emissions uncontrolled.
- (i) One (1) Sinto pouring/cooling process, approved for construction in 2008, identified as EU560, with a maximum capacity of 6 tons of metal per hour, with uncontrolled emissions, exhausting indoors.
- (j) Casting shakeout, identified as EU570, constructed in 2001, with a maximum capacity of 80 tons of sand per hour and 18 tons of metal per hour, with emissions controlled by a Wheelabrator-88 baghouse (BH3) and by the Hosakawa baghouse (BH5), and exhausting to stacks SC-4 and SC-5.
- (k) Sand handling systems including:
  - 1. Sand Muller, identified as EU591, constructed in 1997, with a maximum capacity of 100 tons per hour, and sand conveyor, constructed in 1970, identified as EU592, using Hosakawa baghouse (BH5) for control, and exhausting to stack SC-5.
  - 2. Mold making process including:
    - (A) two (2) Squeezer mold machines, collectively identified as EU520, constructed in 1902;
    - (B) three (3) Rotolift mold machines, collectively identified as EU521, constructed in 1902;
    - (C) one (1) Sinto FBOIII mold machine identified as EU530, constructed in 2000; and
    - (D) One (1) Sinto FBox mold machine, approved for construction in 2008, identified as EU531, with a maximum capacity of 26.4 tons of sand molds per hour, with uncontrolled emissions, exhausting indoors.
- (l) Casting Finishing:
  - 1. One (1) Spin Blast, identified as EU610, constructed in 1986, with a maximum capacity of 5 tons per hour of metal castings, using Wheelabrator-35 baghouse (BH2) for control and exhausting to stack SC-7.
  - 2. One (1) Tumble Blast, identified as EU620, constructed in 1988, with a maximum capacity of 5 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5.
  - 3. One (1) Tumbler, identified as EU630, constructed in 1989, with a maximum capacity of 1 ton per hour of metal castings using Wheelabrator-35 baghouse (BH2) for control and exhausting to stack SC-7.

4. Four (4) Snag Grinders, identified as EU640, one approved for construction in 1985, one approved for construction in 1991, and two approved for construction in 2008 to replace two constructed in 1975, each with a maximum capacity of 2 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5.
5. Six (6) self-contained finish grinders, identified as EU650, constructed in 1990, each with a maximum capacity of 2 tons per hour of metal castings, with downdraft tables using baffles for control and exhausting to general ventilation.

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

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

#### **D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]**

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

- (a) The PM emissions from Hosakawa baghouse (BH5) shall not exceed 8.0 pounds per hour.
- (b) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from Hosakawa baghouse (BH5) shall not exceed 10.0 pounds per hour.
- (c) The PM emissions from the pouring and cooling operation EU550 shall not exceed 0.8781 pounds per ton of metal.
- (d) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the pouring and cooling operation EU550 shall not exceed 0.2676 pounds per ton of metal.
- (e) The VOC emissions from the pouring and cooling operation EU550 shall not exceed 2.591 pounds per ton of metal.
- (f) The CO emissions from the pouring and cooling operation EU550 shall not exceed 3.786 pounds per ton of metal.
- (g) The PM/PM<sub>10</sub>/ PM<sub>2.5</sub> emissions from the baghouse BH3 controlling portions of the casting shakeout system shall not exceed 1.0 pound per ton of metal.
- (h) The CO emissions from the casting shakeout system shall not exceed 2.0 pounds per ton of metal.
- (i) The VOC emissions from the casting shakeout system shall not exceed 1.2 pounds per ton of metal. Compliance with the VOC limit also makes 326 IAC 8-1-6 (General VOC Reduction) not applicable.
- (j) The throughput of sand to the mold machines (EU520, EU521 and EU530) shall not exceed 450,000 tons per 12 consecutive month period with compliance determined at the end of each month.
- (k) The PM emissions from the mold machines EU520, EU521, and EU530 shall not exceed 0.0162 pound per ton of sand.

- (l) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the mold machines EU520, EU521, and EU530 shall not exceed 0.0072 pound per ton of sand.
- (m) The PM/PM<sub>10</sub>/ PM<sub>2.5</sub> emissions from the Wheelabrator-35 baghouse (BH2), shall not exceed 2.9 pounds per hour.
- (n) The PM/PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the finish grinders EU650 shall not exceed 1.0 pound per ton metal.
- (o) The input of metal to the six (6) finish grinders (EU650) shall not exceed 15,100 tons per 12 consecutive month period with compliance determined at the end of each month.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of regulated pollutants to less than 100 tons per year for units constructed prior to 2008. Compliance with these limits makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

#### D.3.2 Prevention of Significant Deterioration (PSD) Minor Limit for 2008 Modification [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2008 modification, the following conditions shall apply:

- (a) The PM emissions from the Sinto mold machine EU531 shall not exceed 0.0162 pounds per ton of sand.
- (b) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the Sinto mold machine EU531 shall not exceed 0.0072 pounds per ton of sand.
- (c) The PM emissions from the Sinto pouring and cooling process EU560 shall not exceed 0.8781 pounds per ton of metal.
- (d) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the Sinto pouring and cooling process EU560 shall not exceed 0.2676 pounds per ton of metal.
- (e) The VOC emissions from the Sinto pouring and cooling process EU560 shall not exceed 1.743 pounds per ton of metal.
- (f) The CO emissions from the Sinto pouring and cooling process EU560 shall not exceed 3.786 pounds per ton of metal.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of regulated pollutants to less than 100 tons per year for modification T167-26842-00007. Compliance with these limits makes modification T167-26842-00007 a minor modification to an existing minor source, and renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification approved under T167-26842-00007. The VOC limit also makes 326 IAC 8-1-6 not applicable to the pouring and cooling process.

#### D.3.3 Particulate Matter (PM) Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, the following conditions shall apply:

- (a) The PM emissions from the Hosakawa baghouse (BH5) controlling the sand muller (EU591), portions of the Didion castings shakeout (EU570), the tumbleblast (EU620), and the snag grinders (EU640) shall not exceed 0.03 grains per dry standard cubic foot.
- (b) The PM emissions from the floor pouring/cooling process (EU540) shall not exceed 0.03 grains per dry standard cubic foot.

- (c) The PM emissions from the Sinto pouring/cooling process (EU550) shall not exceed 0.03 grains per dry standard cubic foot.
- (d) The PM emissions from the Sinto pouring/cooling process (EU560) shall not exceed 0.03 grains per dry standard cubic foot.
- (e) The PM emissions from the Wheelabrator-88 baghouse (BH3) controlling portions of the Didion castings shakeout (EU570) shall not exceed 0.03 grains per dry standard cubic foot.
- (f) The PM emissions from the Wheelabrator-35 baghouse (BH2) controlling the Spin Blast (EU610) and Tumbler (EU630) shall not exceed 0.03 grains per dry standard cubic foot.
- (g) The PM emissions from the finish grinders (EU650) shall not exceed 0.03 grains per dry standard cubic foot.

#### D.3.4 Hazardous Air Pollutant (HAP) Emissions [40 CFR 63]

- (a) The combined Metallic HAP emissions (chromium compounds, cobalt compounds, nickel compounds, arsenic compounds, cadmium compounds, selenium compounds, manganese compounds, and antimony compounds) from the Casting Shakeout System shall not exceed 0.002 pounds per ton of metal.
- (b) The Phenol emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0718 pounds per ton of metal.
- (c) The Benzene emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.1643 pounds per ton of metal.
- (d) The Aniline emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0366 pounds per ton of metal.
- (e) The o-Cresol emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0185 pounds per ton of metal.
- (f) The Naphthalene emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0048 pounds per ton of metal.
- (g) The N,N - Dimethylaniline emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0085 pounds per ton of metal.
- (h) The Toluene emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0647 pounds per ton of metal.
- (i) The m,p -Cresol emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0059 pounds per ton of metal.
- (j) The m,p -Xylene emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0044 pounds per ton of metal.
- (k) The Xylene (Total) emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0383 pounds per ton of metal.
- (l) The Acetaldehyde emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0100 pounds per ton of metal.
- (m) The Ethylbenzene emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0070 pounds per ton of metal.

- (n) The Formaldehyde emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0011 pounds per ton of metal.
- (o) The hexane emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0046 pounds per ton of metal.
- (p) The other HAP emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.0070 pounds per ton of metal.
- (q) The total organic HAP emissions from Pouring, Cooling, and Casting Shakeout combined shall not exceed 0.4475 pounds per ton of metal.
- (r) The combined Metallic HAP emissions (chromium compounds, cobalt compounds, nickel compounds, arsenic compounds, cadmium compounds, selenium compounds, manganese compounds, and antimony compounds) from the Sandblast Systems shall not exceed 0.0029 pounds per ton of metal.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of HAPs to less than 10 tons per 12 consecutive month period for a single HAP and less than 25 tons per 12 consecutive month period for total HAPs. Compliance with this limit makes 40 CFR 63, Subpart EEEEE not applicable.

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

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

### Compliance Determination Requirements

#### D.3.6 Particulate Matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) Control

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- (a) The Hosakawa baghouse (BH5) for PM, PM<sub>10</sub> and PM<sub>2.5</sub> control from the sand muller, sand conveyor, portions of the Didion castings shakeout, tumble blast, and snag grinders shall be in operation at all times when the sand muller, sand conveyor, Didion castings shakeout, tumble blast, or any of the snag grinders is in operation.
- (b) The Wheelabrator-88 baghouse (BH3) for PM, PM<sub>10</sub> and PM<sub>2.5</sub> control from portions of the Didion casting shakeout shall be in operation at all times when the casting shakeout system is in operation.
- (c) The Wheelabrator-35 baghouse (BH2) for PM, PM<sub>10</sub> and PM<sub>2.5</sub> control from the spin blast and tumbler shall be in operation at all times when the spin blast or tumbler is in operation.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

#### D.3.7 Visible Emissions Notations

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- (a) Visible emission notations of each of the three baghouse (BH2, BH3, and BH5) exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

#### D.3.8 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the Hosakawa baghouse used in conjunction with the sand muller and sand conveyor (BH5), at least once per day when the sand muller and sand conveyor are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take a reasonable response. 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.
- (b) The Permittee shall record the pressure drop across the Wheelabrator-88 baghouse used in conjunction with casting shakeout (BH3), at least once per day when the casting shakeout system is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take a reasonable response. 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 Permittee shall record the pressure drop across the Wheelabrator-35 baghouse used in conjunction with the spin blast (BH2) and tumbler (EU630), at least once per day when the spin blast or tumbler is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take a reasonable response. 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.
- (d) The instruments used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

#### D.3.9 Broken Bag or Failure Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated processes 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 emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouses 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.3.10 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.3.7, the Permittee shall maintain records of visible emission notations taken each day of the baghouses BH2, BH3 and BH5 stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
  
- (b) To document the compliance status with Condition D.3.8, the Permittee shall maintain records of the baghouse pressure drops. 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) To document the compliance status with Condition D.3.1, the Permittee shall maintain records of the weight of sand throughput to the mold machines (EU520, EU521 and EU530) and the metal input to the six (6) finish grinders (EU650) each month. The records shall be complete and sufficient to establish compliance with the throughput limitations in Condition D.3.1.
  
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

#### D.3.12 Reporting Requirements

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A quarterly summary of the information to document the compliance status with Condition D.3.1(j) and D.3.1(o) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The reports submitted by the Permittee 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).

## SECTION D.4

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

(m) Core making systems including:

1. Three (3) Shell Core Machines, identified as EU320, EU321, and EU322, constructed in 1979, each with a maximum capacity of 1 ton per hour of sand, utilizing no controls and exhausting to general ventilation;
2. One (1) Oil Core Making Process, identified as EU410, constructed in 1902, utilizing a mixer and associated core boxes with a maximum capacity of 0.25 tons per hour of sand, utilizing no controls and exhausting to general ventilation; and
3. Core Wash Process, identified as EU730, constructed in 1902, with a maximum capacity of 1 ton per hour of sand, utilizing no controls and exhausting to general ventilation.

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

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

#### D.4.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]

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

(a) Shell Core Making

1. The input of core sand to the shell core making process shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month.
2. The PM emissions from the shell core making process shall not exceed 0.9 pound per ton sand.
3. The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the shell core making process shall not exceed 0.9 pound per ton sand.
4. The VOC emissions from the shell core making process shall not exceed 0.254 pound per ton sand.

(b) Oil Core Making

1. The input of core sand to the oil core making process shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month.
2. The PM emissions from the oil core making process shall not exceed 0.9 pound per ton sand.
3. The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the oil core making process shall not exceed 0.9 pound per ton sand.

4. The VOC emissions from the oil core making process shall not exceed 3.05 pound per ton sand.
- (c) Core Wash  
The VOC emissions from the core wash process shall not exceed 5.2 pounds per ton core material.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) and VOC for all units constructed prior to 2008 to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

#### D.4.2 Particulate Matter (PM) Limitations [326 IAC 6.5-1-2]

---

Pursuant to 326 IAC 6.5-1-2, the following conditions shall apply:

- (a) The PM emissions from the oil core making process (EU410) shall not exceed 0.03 grains per dry standard cubic foot.
- (b) The PM emissions from the shell core machines (EU320, EU321, and EU322) shall not exceed 0.03 grains per dry standard cubic foot.

#### D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

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

#### D.4.4 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.4.1, the Permittee shall maintain monthly records of the sand throughput to the shell core making process and the oil core making process. The records shall be complete and sufficient to establish compliance with the usage limitations in Condition D.4.1(a) and (b).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

#### D.4.5 Reporting Requirements

---

A quarterly summary of the sand throughput to the shell core making process and the oil core making process shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. 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.5

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

(n) Isocure Core making systems including:

1. Isocure Core Machine, identified as EU 222, constructed in 1994, fed by mixer 2, with a maximum capacity of 0.525 tons of sand/resin mixture per hour, a maximum of 21 pounds of resin per hour, and a maximum of 1.05 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
2. Cold Box (Isocure) Core Machine, identified as CBCM-1, constructed in 2003, fed by mixer 2, with a maximum capacity of 1 ton of sand/resin mixture per hour, a maximum of 40 pounds of resin per hour, and a maximum of 2 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
3. Cold Box (Isocure) Core Machine, identified as CBCM-2, constructed in 2003, fed by mixer 2, with a maximum capacity of 1 ton of sand/resin per hour, a maximum of 40 pounds of resin per hour, and a maximum of 2 pounds of DMIPA per hour, controlled by an acid scrubber, and exhausting to stack SC-8.
4. Sand Mixer, identified as mixer 2, constructed in 2003, with a maximum capacity of 2.525 tons of sand/resin mixture per hour.
5. Sand heater, constructed in 1978
6. Sand Silo, with a maximum capacity of 165 tons of sand, loaded via pneumatic conveying system including an integral bin vent, utilizing no control.

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

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

#### D.5.1 Particulate Matter (PM) Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a) PM emissions from the sand silo shall not exceed 0.03 grain per dry standard cubic foot.

#### D.5.2 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Constructed Prior to 2008 [326 IAC 2-2]

- (a) The production of cores in the isocure machines (EU222, CBCM-1 and CBCM-2 combined) shall not exceed 1,100 tons per 12 consecutive month period with compliance determined at the end of each month.
- (b) The VOC emissions, including dimethylisopropylamine (DMIPA), from each of the isocure machines (EU222, CBCM-1 and CBCM-2) shall not exceed 10.0 pounds per ton.
- (c) The PM emissions from the sand silo shall not exceed 0.5 pounds per ton.
- (d) The PM<sub>10</sub>/PM<sub>2.5</sub> emissions from the sand silo shall not exceed 0.5 pounds per ton.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) for all emission units constructed prior to 2008 to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

**D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

---

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

**Compliance Determination Requirements**

**D.5.4 Compliance Determination [326 IAC 2-2]**

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The acid scrubber shall be in operation at all times any of the associated Cold Box Core Machines (EU222, Cold Box Core Machine 1, and Cold Box Core Machine 2) is in operation.

**D.5.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

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No later than September 7, 2011 and in order to demonstrate the compliance status with the total VOC limits, the Permittee shall perform total VOC testing utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

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

**D.5.6 Acid Scrubber Monitoring**

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- (a) The Permittee shall record the scrubbing liquor flow rate through the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the flow rate through the scrubber is below the minimum 120 gallons per minute or a minimum established during the latest stack test, the Permittee shall take a reasonable response. 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.
- (b) The Permittee shall record the scrubbing liquid pH in the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the scrubbing liquid pH is above the maximum 4.5 or a maximum established during the latest stack test, the Permittee shall take a reasonable response. 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 Permittee shall record the pressure drop across the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take a reasonable response. 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.
- (d) The instruments used for determining the scrubbing liquid flow rate, pH, and pressure drop shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

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

### **D.5.7 Record Keeping Requirements**

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- (a) To document the compliance status with Condition 5.6, the Permittee shall maintain a daily record of the pressure drop across the acid scrubber, scrubbing liquid flow rate, and scrubbing liquid pH. The Permittee shall include in its daily record when a visible emission notation, a pressure drop reading, a scrubber liquid flow rate reading, or a scrubbing liquid pH reading is not taken and the reason for the lack of a visible emission notation, a pressure drop reading, a scrubber liquid flow rate reading, or a scrubbing liquid pH reading (e.g., the process did not operate that day).
- (b) To document the compliance status with Condition D.5.2, the Permittee shall maintain records of the weight of cores produced each month. The records shall be complete and sufficient to establish compliance with the core production limitation in Condition D.5.2.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition..

### **D.5.8 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Condition D.5.2(a) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. 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.6

## EMISSIONS UNIT OPERATION CONDITIONS

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

#### Insignificant Activities:

- (a) One (1) emergency diesel generator, identified as EU800, constructed in 2011, rated at 346 horsepower, with an engine displacement volume less than 10 liters per cylinder and exhausting to the atmosphere. [Under 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, this process is considered an affected unit.]

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

### D.6.1 Hazardous Air Pollutant (HAP) Emissions Minor Limit [40 CFR 63] [326 IAC 20]

The hours of operation for Emergency Generator EU800 shall not exceed 40 hours per consecutive 12 month period. Compliance with this limit, and other limits at the source, shall limit the sourcewide potential to emit a single HAP to less than 10 tons per consecutive 12 month period and shall make the entire source an area source for HAPs.

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

### D.6.2 Record Keeping Requirements

- (a) To document the compliance status with Condition D.6.1, the Permittee shall maintain monthly records of the hours of operation for Emergency Generator EU800. The records shall be complete and sufficient to establish compliance with the limitations in Condition D.6.1.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition..

### D.6.3 Reporting Requirements

A quarterly summary of the hours of operation of Emergency Generator EU800 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. 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 E.1

## FACILITY OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) Scrap/Charge Handling operation for the electric induction furnaces, identified as EU120, constructed in 1995, with a maximum capacity of 10 tons of metal per hour, with emissions uncontrolled. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected source]
- (c) Electric Induction Furnace #3, identified as EU130, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected source]
- (d) Electric Induction Furnace #4, identified as EU140, constructed in 1995, with a maximum capacity of 5.0 tons of metal per hour, using Steelcraft baghouse (BH1) for control, and exhausting to stack SC-2. [Under 40 CFR 63, Subpart ZZZZZ, this process is considered an existing affected source]

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

### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

#### E.1.1 General Provisions Relating to NESHAP ZZZZZ [326 IAC 20-80-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.10890(i), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions.

#### E.1.2 National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources [40 CFR Part 63, Subpart ZZZZZ]

The Permittee who operates an iron or steel foundry that is an area source of hazardous air pollutants (HAPs) shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZZ, included as Attachment A of this permit, with a compliance date of January 2, 2009 for the pollution prevention management practices for metallic scrap and January 4, 2010 for the pollution prevention management practices for mercury:

Nonapplicable portions of the NESHAP will not be included in the permit. The source is subject to the following portions of Subpart ZZZZZ:

- 1) 40 CFR 63.10880 (a), (b), (b)(1), (c), and (f).
- 2) 40 CFR 63.10881 (a), (a)(1), (a)(2), (d), (d)(1), and (d)(1)(i).
- 3) 40 CFR 63.10885 (a), (a)(1), (a)(2), (a)(2)(i), (b), (b)(1), (b)(1)(i-ii), (b)(1)(ii)(A-D), (b)(1)(iii-v), (b)(2), (b)(2)(i-iv), (b)(2)(iv)(A-C), and (b)(3-4).
- 4) 40 CFR 63.10890 (a-c), (c)(1-2), (d-e), (e)(1-3), (e)(3)(i-ii), (e)(4), (e)(6-7), and (f-i).
- 5) 40 CFR 63.10897 (a), (a)(1), (a)(1)(i-ii), (d), (d)(1), (d)(1)(i-vii), (d)(2), (d)(2)(i-vi), (d)(3), (d)(3)(i-vi), and (e-g).
- 6) 40 CFR 63.10899 (a-b), (b)(1-2), (b)(2)(i-ii), (b)(3), (b)(5-6), (b)(9), (b)(9)(i-iii), (b)(10-13), (b)(13)(i), (c), and (c)(1-3).
- 7) 40 CFR 63.10905 (a-c) and (c)(1-6).
- 8) 40 CFR 63.10906.

## SECTION E.2

## FACILITY OPERATION CONDITIONS

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

#### Insignificant Activities:

- (a) One (1) emergency diesel generator, identified as EU800, constructed in 2011, rated at 346 horsepower, with an engine displacement volume less than 10 liters per cylinder and exhausting to the atmosphere. [Under 40 CFR 60, Subpart IIII, this process is considered an affected unit.]

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

### Standards of Performance for New Stationary Sources

#### E.2.1 General Provisions Relating to NSPS IIII [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart IIII.

#### E.2.2 Stationary Compression Ignition Internal Combustion Engines NSPS Requirements [40 CFR Part 60, Subpart IIII] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart IIII, (included as Attachment B of this permit), the Permittee which shall comply with the provisions of 40 CFR Part 60, Subpart IIII, for the emergency diesel generator as follows:

- 1) 40 CFR 60.4200(a)(2)(i)
- 2) 40 CFR 60.4202(a)(2)
- 3) 40 CFR 60.4205(b)
- 4) 40 CFR 60.4206
- 5) 40 CFR 60.4207; (a),(b),(c)
- 6) 40 CFR 60.4208(a)
- 7) 40 CFR 60.4209(a)
- 8) 40 CFR 60.4211(e)
- 9) 40 CFR 60.4214(b)
- 10) 40 CFR 60.4218
- 11) 40 CFR 60.4219
- 12) Table 8

## SECTION E.3

## FACILITY OPERATION CONDITIONS

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

#### Insignificant Activities:

- (a) One (1) emergency diesel generator, identified as EU800, constructed in 2011, rated at 346 horsepower, with an engine displacement volume less than 10 liters per cylinder and exhausting to the atmosphere. [Under 40 CFR 63, Subpart ZZZZ, this process is considered an affected unit.]

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

### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

#### E.3.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-82-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.10890(i), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions.

#### E.3.2 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, (included as Attachment B of this permit), the Permittee which shall comply with the provisions of 40 CFR Part 63, Subpart ZZZZ, for the emergency diesel generator as follows:

- 1) 40 CFR 63.6580
- 2) 40 CFR 63.6585(a),(c),(d)
- 3) 40 CFR 63.6590(a)(2)(iii),(c)
- 4) 40 CFR 63.6670
- 5) 40 CFR 63.6675

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007

**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: Gartland Foundry Company  
Part 70 Permit No.: T 167-26842-00007

This form consists of 2 pages

Page 1 of 2

|  |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• 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</li><li>• The Permittee must submit notice in writing or by facsimile no later than two (2) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.</li></ul> |
|--|

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? <input type="checkbox"/> Y <input type="checkbox"/> N<br>Describe:  |
| Type of Pollutants Emitted: <input type="checkbox"/> TSP <input type="checkbox"/> PM-10 <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> VOC <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> other: |
| Estimated amount of pollutant(s) emitted during emergency:   |
| Describe the steps taken to mitigate the problem:  |
| Describe the corrective actions/response steps taken:  |
| Describe the measures taken to minimize emissions:   |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:                      |

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Induction Furnaces (EU130 and EU140)  
Parameter: combined metal input  
Limit: Shall not exceed 18,000 tons (combined) per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Shell Core Making  
Parameter: sand input  
Limit: Shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Oil Core Making  
Parameter: sand input  
Limit: Shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Magnesium Treatment  
Parameter: Metal Treated  
Limit: Shall not exceed 9,000 tons of iron per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Six (6) Finish Grinders (EU650)  
Parameter: Metal castings  
Limit: Shall not exceed 15,100 tons of metal per 12 consecutive month period with compliance determined at the end of each month

YEAR:

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.

Deviation has been reported on \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Mold Making Process including squeezer mold machines (EU520), rotolift mold machines (EU521), Sinto FBOIII mold machine (EU530)  
Parameter: combined sand input  
Limit: Shall not exceed 450,000 tons (combined) per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Isocure Core Making  
Parameter: Core Production  
Limit: Shall not exceed 1,100 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Electrostatic Paint Booth (EU710)  
Parameter: VOC Input  
Limit: Shall not exceed 48 tons of VOC per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Electrostatic Paint Booth  
Parameter: HAP Input  
Limit: Shall not exceed 9.735 tons of Xylene per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Holding Furnace  
Parameter: metal melted  
Limit: Shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

### Part 70 Quarterly Report

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Emergency Generator EU800  
Parameter: Hours Operated  
Limit: Shall not exceed 40 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (hours) | Previous 11 Months (hours) | 12-Month Period (hours) |
|-------|--------------------|----------------------------|-------------------------|
|       |                    |                            |                         |
|       |                    |                            |                         |
|       |                    |                            |                         |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, 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:**

|  |                               |
|--|-------------------------------|
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

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

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

**Source Description and Location**

|                                      |   |
|--------------------------------------|---|
| Source Name:                         | Gartland Foundry Company                |
| Source Location:                     | 330 Grant Street, Terre Haute, IN 47802 |
| County:                              | Vigo                                    |
| SIC Code:                            | 3321                                    |
| Operation Permit No.:                | T 167-26842-00007                       |
| Operation Permit Issuance Date:      | October 24, 2008                        |
| Significant Permit Modification No.: | 167-30601-00007                         |
| Permit Reviewer:                     | Ghassan Shalabi                         |

**Existing Approvals**

The source was issued Part 70 Operating Permit No. T167-26842-00007 on October 24, 2008. The source has since received the following approvals:

Significant Permit Modification No. 167-27191-00007, issued on February 06, 2009.  
Significant Permit Modification No. 167-29422-00007, issued on March 08, 2011

**County Attainment Status**

The source is located in Vigo County.

The following attainment status designations are applicable to Vigo County:

| Pollutant  | Designation   |
|--|---|
| SO <sub>2</sub>  | Better than national standards.   |
| CO   | Unclassifiable or attainment effective November 15, 1990.   |
| O <sub>3</sub>   | Attainment effective February 6, 2006, for the Terre Haute area, including Vigo County, for the 8-hour ozone standard. <sup>1</sup> |
| PM <sub>10</sub>   | Unclassifiable effective November 15, 1990.   |
| NO <sub>2</sub>  | Cannot be classified or better than national standards.   |
| Pb   | Not designated.   |
| <sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.<br>Unclassifiable or attainment effective April 5, 2005, for PM2.5. |   |

*(Air Pollution Control Board; 326 IAC 1-4-85; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)*

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Vigo 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<sub>2.5</sub>**  
Vigo County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> 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<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> 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**  
Vigo County has been classified as attainment or unclassifiable in Indiana for SO<sub>2</sub>, PM<sub>10</sub>, CO, NO<sub>2</sub>, and Pb. 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 an iron mill, 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.

#### **Description of Proposed Modification**

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by August Mack Environmental, on behalf of Gartland Foundry Company, on June 3, 2011, relating to modifying Gartland's Part 70 Operating Permit No. T167-26842-00007 as follows:

- (a) Revise the PSD Minor Limit for the magnesium treatment operation, identified as EU150, to increase the input of metal from 6,000 tons per year to 9,000 tons per year.
- (b) Add a PSD Minor Limit for the six (6) finish grinders, identified as EU 650, restricting metal input to 15,100 tons per year.
- (c) Revise the PSD Minor Limit for the mold machines, identified as EU520, EU521, EU530, to decrease sand throughput from 600,000 tons per year to 450,000 tons per year.
- (d) Revise the PSD Minor Limit for Volatile Organic Compounds (VOCs) for the pouring and cooling operation (EU550) from 1.475 pounds per ton to 2.591 pounds per ton
- (e) Revise the PSD Minor Limit for Volatile Organic Compound (VOCs) for EU710 from 58 tons per year to 48 tons per year.

#### **Enforcement Issues**

There are no pending enforcement actions.

#### **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.”

There is no increase in the potential to emit of any emission unit associated with this modification; therefore, this modification is not subject to the source modification requirements under 326 IAC 2-7-10.5. The changes 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 change in a case-by-case determination of an emission limitation and does not qualify as minor permit modification or as administrative amendment.

**Permit Level Determination – PSD**

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

| Process / Emission Unit                        | Potential to Emit (ton/yr) |                  |                 |      |      |                  |                 |
|--|----------------------------|------------------|-----------------|------|------|------------------|-----------------|
|  | PM                         | PM <sub>10</sub> | SO <sub>2</sub> | VOC  | CO   | CO <sub>2e</sub> | NO <sub>x</sub> |
| From all existing emission units (before 2008) | 99.9                       | 95.4             | 0.18            | 94.6 | 52.1 | 0                | 0.09            |
| After 2008 modification                        | 25.4                       | 8.3              | 0.18            | 45.8 | 99.5 | 5250             | 0.09            |
| Major Source Threshold                         | 100                        | 100              | 100             | 100  | 100  | 100,000          | 100             |

Prior to the 2008 modification, the source was not considered major for PSD because, the sourcewide emissions were limited to less than the PSD major source thresholds. The 2008 modification to the existing minor stationary source was not major because, the emissions increases were less than the PSD major source thresholds. The source was considered a major source for PSD after 2008 modification. This modification of adjustment in limits of individual emission units still keeps all emissions of before 2008 emission units and after 2008 emission units to less than 100 tpy respectively. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

**Federal Rule Applicability Determination**

There are no changes to Federal Rule Applicability as a result of this modification.

**State Rule Applicability Determination**

There are no changes to State Rule Applicability as a result of this modification.

**Compliance Determination and Monitoring Requirements**

**Compliance Determination Requirements**

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

**Compliance Monitoring Requirements**

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

**Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit No. T167-26842-00007. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

**Change No. 1:** The following conditions were revised as follows:

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008  
[326 IAC 2-2]

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

- (f) The input of metal to the Magnesium Treatment (EU150) shall not exceed ~~6,000~~ **9,000** tons of iron per 12 consecutive month period with compliance determined at the end of each month.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Magnesium Treatment  
Parameter: Metal Treated  
Limit: Shall not exceed ~~6,000~~ **9,000** tons of iron per 12 consecutive month period with compliance determined at the end of each month

YEAR:

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.

Deviation has been reported on \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

D.2.5 PSD Minor Limit [326 IAC 2-2]

The VOC input to the electrostatic spray booth (EU710) shall not exceed ~~58~~ **48** tons per 12 consecutive month period with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of volatile organic compounds from the entire source to less than 100 tons per year for units constructed prior to 2008. Compliance with these limits makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the emission units constructed prior to 2008.

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

**Part 70 Quarterly Report**

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
Part 70 Permit No.: T 167-26842-00007  
Facility: Electrostatic Paint Booth (**EU710**)  
Parameter: VOC Input  
Limit: Shall not exceed ~~58~~ **48** tons of VOC per 12 consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008  
[326 IAC 2-2]

---

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

...  
(e) The VOC emissions from the pouring and cooling operation EU550 shall not exceed ~~4.475~~ **2.591** pounds per ton of metal.

...  
(j) The throughput of sand to the mold machines (EU520, EU521 and EU530) shall not exceed ~~600,000~~ **450,000** tons per 12 consecutive month period with compliance determined at the end of each month.

...  
(o) **The input of metal to the six (6) finish grinders (EU650) shall not exceed 15,100 tons per 12 consecutive month period with compliance determined at the end of each month.**

...

D.3.10 Record Keeping Requirements

---

(c) To document compliance with Condition D.3.1, the Permittee shall maintain records of the weight of sand throughput to the mold machines (EU520, EU521 and EU530) **and the metal input to the six (6) finish grinders (EU650)** each month. The records shall be complete and sufficient to establish compliance with the throughput limitations in Condition D.3.1.

D.3.12 Reporting Requirements

---

A quarterly summary of the information to document **the compliance status** with Conditions D.3.1(j) **and D.3.1(o)** shall be submitted **not later than** ~~to the addresses listed in Section C – General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent,~~ within thirty (30) days after the end of the quarter being reported. **Section C General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.** The reports submitted by the Permittee ~~does~~ **do** require ~~the~~ **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).

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

**Part 70 Quarterly Report**

|                     |   |
|---------------------|---|
| Source Name:        | Gartland Foundry Company  |
| Source Address:     | 330 Grant Street, Terre Haute, Indiana 47802  |
| Part 70 Permit No.: | T 167-26842-00007   |
| Facility:           | Six (6) Finish Grinders (EU650)   |
| Parameter:          | Metal castings  |
| Limit:              | Shall not exceed 15,100 tons of metal per 12 consecutive month period with compliance determined at the end of each month |

**YEAR:**

| Month | This Month (tons) | Previous 11 Months (tons) | 12-Month Period (tons) |
|-------|-------------------|---------------------------|------------------------|
|       |                   |                           |                        |
|       |                   |                           |                        |
|       |                   |                           |                        |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.

Deviation has been reported on \_\_\_\_\_

Submitted By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

|                                |
|--------------------------------|
| <b>Additional IDEM Changes</b> |
|--------------------------------|

**Change No. 2:** In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, PM<sub>2.5</sub> limits were added and the following changes were made to the permit as follows:

**TABLE OF CONTENTS**

...

**Compliance Determination Requirements**

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

D.1.7 Particulate Matter (PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub>) Control

...

**Compliance Determination Requirements**

D.3.6 Particulate Matter (PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub>) Control

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]

---

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

...

- (c) The  $PM_{10}/PM_{2.5}$  emissions from the induction furnaces (#3 and #4) shall not exceed 1.0 pounds per ton of metal melted.
- (d) The PM emissions from the scrap/charge handling system shall not exceed 0.60 pounds per ton of metal.
- (e) The  $PM_{10}/PM_{2.5}$  emissions from the scrap/charge handling system shall not exceed 0.36 pound per ton of metal.
- (f) The input of metal to the Magnesium Treatment (EU150) shall not exceed 9,000 tons of iron per 12 consecutive month period with compliance determined at the end of each month.
- (g) The PM emissions from Magnesium Treatment shall not exceed 1.8 pounds per ton of metal.
- (h) The  $PM_{10}/PM_{2.5}$  emissions from Magnesium Treatment shall not exceed 1.8 pounds per ton of metal.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, ~~and~~  $PM_{10}$  and  $PM_{2.5}$ ) to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the emission units constructed before 2008.

D.1.2 Prevention of Significant Deterioration (PSD) Minor Limit for 2008 Modification [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the T167-26842-00007, the following conditions shall apply:

- (a) The amount of metal melted in the holding furnace EU160 shall not exceed 1,000 tons per 12 consecutive month period with compliance determined at the end of each month.
- (b) The PM emissions from the holding furnace EU160 shall not exceed 0.90 pounds per ton of metal melted.
- (c) The  $PM_{10}/PM_{2.5}$  emissions from the holding furnace EU160 shall not exceed 0.86 pounds per ton of metal melted.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, ~~and~~  $PM_{10}$  and  $PM_{2.5}$ ) to less than 100 tons per year for the 2008 modification. Compliance with these limits makes modification T167-26842-00007 a minor modification to an existing minor source, and renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification approved by T167-26842-00007.

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

No later than September 7, 2011 and in order to demonstrate the compliance status with Condition D.1.1, the Permittee shall perform PM, ~~and~~  $PM_{10}$  **and**  $PM_{2.5}$  testing on Electric Induction Furnaces #3 and #4, utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

**D.1.7 Particulate Matter (PM, ~~and~~  $PM_{10}$  **and**  $PM_{2.5}$  Control**

---

- (a) The baghouse for PM, ~~and~~  $PM_{10}$  **and**  $PM_{2.5}$  control shall be in operation and control emissions from the Electric Induction Furnaces #3 and #4 at all times they are in operation.

...

**D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]**

---

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

- (a) The PM emissions from Hosakawa baghouse (BH5) shall not exceed 8.0 pounds per hour.
- (b) The  $PM_{10}$ / **$PM_{2.5}$**  emissions from Hosakawa baghouse (BH5) shall not exceed 10.0 pounds per hour.
- (c) The PM emissions from the pouring and cooling operation EU550 shall not exceed 0.8781 pounds per ton of metal.
- (d) The  $PM_{10}$ / **$PM_{2.5}$**  emissions from the pouring and cooling operation EU550 shall not exceed 0.2676 pounds per ton of metal.
- (e) The VOC emissions from the pouring and cooling operation EU550 shall not exceed 2.591 pounds per ton of metal.
- (f) The CO emissions from the pouring and cooling operation EU550 shall not exceed 3.786 pounds per ton of metal.
- (g) The  $PM/PM_{10}$ / **$PM_{2.5}$**  emissions from the baghouse BH3 controlling portions of the casting shakeout system shall not exceed 1.0 pound per ton of metal.
- (h) The CO emissions from the casting shakeout system shall not exceed 2.0 pounds per ton of metal.
- (i) The VOC emissions from the casting shakeout system shall not exceed 1.2 pounds per ton of metal. Compliance with the VOC limit also makes 326 IAC 8-1-6 (General VOC Reduction) not applicable.
- (j) The throughput of sand to the mold machines (EU520, EU521 and EU530) shall not exceed 450,000 tons per 12 consecutive month period with compliance determined at the end of each month.
- (k) The PM emissions from the mold machines EU520, EU521, and EU530 shall not exceed 0.0162 pound per ton of sand.
- (l) The  $PM_{10}$ / **$PM_{2.5}$**  emissions from the mold machines EU520, EU521, and EU530 shall not exceed 0.0072 pound per ton of sand.

- (m) The PM/PM<sub>10</sub>/**PM**<sub>2.5</sub> emissions from the Wheelabrator-35 baghouse (BH2), shall not exceed 2.9 pounds per hour.
- (o) The PM/PM<sub>10</sub>/**PM**<sub>2.5</sub> emissions from the finish grinders EU650 shall not exceed 1.0 pound per ton metal.

...

#### D.3.2 Prevention of Significant Deterioration (PSD) Minor Limit for 2008 Modification [326 IAC 2-2]

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In order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2008 modification, the following conditions shall apply:

- (a) The PM emissions from the Sinto mold machine EU531 shall not exceed 0.0162 pounds per ton of sand.
- (b) The PM<sub>10</sub>/**PM**<sub>2.5</sub> emissions from the Sinto mold machine EU531 shall not exceed 0.0072 pounds per ton of sand.
- (c) The PM emissions from the Sinto pouring and cooling process EU560 shall not exceed 0.8781 pounds per ton of metal.
- (d) The PM<sub>10</sub>/**PM**<sub>2.5</sub> emissions from the Sinto pouring and cooling process EU560 shall not exceed 0.2676 pounds per ton of metal.

...

#### D.3.6 Particulate Matter (PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub>) Control

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- (a) The Hosakawa baghouse (BH5) for PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub> control from the sand muller, sand conveyor, portions of the Didion castings shakeout, tumble blast, and snag grinders shall be in operation at all times when the sand muller, sand conveyor, Didion castings shakeout, tumble blast, or any of the snag grinders is in operation.
- (b) The Wheelabrator-88 baghouse (BH3) for PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub> control from portions of the Didion casting shakeout shall be in operation at all times when the casting shakeout system is in operation.
- (c) The Wheelabrator-35 baghouse (BH2) for PM, ~~and~~ PM<sub>10</sub> **and** PM<sub>2.5</sub> control from the spin blast and tumbler shall be in operation at all times when the spin blast or tumbler is in operation.

...

#### D.4.1 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Existing Prior to 2008 [326 IAC 2-2]

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

- (a) Shell Core Making

...

- 3. The PM<sub>10</sub>/**PM**<sub>2.5</sub> emissions from the shell core making process shall not exceed 0.9 pound per ton sand.
- 4. The VOC emissions from the shell core making process shall not exceed 0.254 pound per ton sand.

(b) Oil Core Making

...

3. The PM<sub>10</sub>/~~PM~~**PM**<sub>2.5</sub> emissions from the oil core making process shall not exceed 0.9 pound per ton sand.
4. The VOC emissions from the oil core making process shall not exceed 3.05 pound per ton sand.

(c) Core Wash

The VOC emissions from the core wash process shall not exceed 5.2 pounds per ton core material.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, ~~and PM<sub>10</sub>~~ **and PM<sub>2.5</sub>**) and VOC for all units constructed prior to 2008 to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.5.2 Prevention of Significant Deterioration (PSD) Minor Limit for Equipment Constructed Prior to 2008 [326 IAC 2-2]

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...

(d) The PM<sub>10</sub>/~~PM~~**PM**<sub>2.5</sub> emissions from the sand silo shall not exceed 0.5 pounds per ton.

Compliance with these limits (combined with other limits throughout) shall limit the potential to emit of particulate matter (PM, ~~and PM<sub>10</sub>~~ **and PM<sub>2.5</sub>**) for all emission units constructed prior to 2008 to less than 100 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

**Change No. 3:** Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

**Change No. 4:** IDEM no longer shows the mailing address in Part 70 operating permit in order to minimize administrative changes in the future. Section A.1 and the reporting forms have been revised to remove the source mailing address

**Change No. 5:** 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM is revising all instances of "the responsible official" to read "a responsible official."

**Change No. 6:** IDEM has made the following changes throughout the permit:  
... require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)**...

**Change No. 7:** IDEM, OAQ has decided to clarify Section B - Preventive Maintenance Plan to be consistent with the rule.

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

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- ~~(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) for each facility as described in 326 IAC 1-6-3. At a minimum, the PMP shall include:~~

**(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 time frame specified in Section D, 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 ~~a violation of any~~ **an exceedance of any** limitation on emissions for that unit. The PMPs do 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. 8:** IDEM, OAQ has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timeline have been switched to "no later than" or "not later than" except for the timelines in B.2 and B(22). The underlying rules state "within."

**Change No. 9:** IDEM, OAQ is deleting the text indicating whether or not a certification is required from the reporting forms. Each permit condition now states whether a certification is required.

**Change No. 10:** Section B -Duty to Provide Information has been revised.

**B.8 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.

**Change No. 11:** The emergency provisions requirements have been clarified as follows:

B.12 Emergency Provisions [326 IAC 2-7-16]

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~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

**Change No. 12:** The General Reporting Requirements have been clarified as follows:

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]

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...

(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

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

- (1) The name, address, and telephone number of the major stationary source.
- (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee ~~deems fit~~ **wishes** to include in this report **such as an explanation as to why the emissions differ from the preconstruction project.**

...

**Change No 13:** The Permit Renewal requirements have been clarified as follow:

B.18 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

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...

(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. 14:** IDEM is revising paragraph (b) of condition C.15 as follows:

IDEM, OAQ has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The start of the timelines was switched from "the receipt of the test results" to "the date of the test". There was confusion if the "receipt" was by IDEM, OAQ, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a

comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

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

...

- (b) A retest to demonstrate compliance shall be performed no later than one hundred ~~twenty (120)~~ **eighty (180)** days of receipt ~~after the date~~ of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180)** days is not practicable, IDEM, OAQ may extend the retesting deadline.

...

**Change No. 15:** 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]

Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 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(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

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).

**Change No. 16:** IDEM, OAQ has decided clarify the requirements in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1. The Permittee shall comply with applicable requirements.

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 **applicable** standards for recycling and emissions reduction.

**Change No. 17:** IDEM decided to make the following changes to the Preventative Maintenance Plan Provisions throughout Section D of the permit:

~~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. 18:** IDEM decided to make the following changes to the Monitoring provisions throughout Section D of the permit:

#### D.1.9 Parametric Monitoring

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The Permittee shall record the pressure drop across the Steelcraft baghouse (BH1) used in conjunction with the Electric Induction Furnaces #3 and #4, at least once per day when either Electric Induction Furnace is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

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

#### D.2.9 Monitoring

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- (a) Daily inspections shall be performed to verify the placement, integrity and pressure drop of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray booth stack (SC-6) while the spray booth is in operation. 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure drop 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.3.8 Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across the Hosakawa baghouse used in conjunction with the sand muller and sand conveyor (BH5), at least once per day when the sand muller and sand conveyor are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the Wheelabrator-88 baghouse used in conjunction with casting shakeout (BH3), at least once per day when the casting shakeout system is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

- (c) The Permittee shall record the pressure drop across the Wheelabrator-35 baghouse used in conjunction with the spin blast (BH2) and tumbler (EU630), at least once per day when the spin blast or tumbler is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.
- (d) The instruments used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated **or replaced** at least once every six (6) months.

#### D.5.6 Acid Scrubber Monitoring

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- (a) The Permittee shall record the scrubbing liquor flow rate through the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the flow rate through the scrubber is below the minimum 120 gallons per minute or a minimum 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading **liquor flow rate** that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.
- (b) The Permittee shall record the scrubbing liquid pH in the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the scrubbing liquid pH is above the maximum 4.5 or a maximum 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure **liquid pH** 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.
- (c) The Permittee shall record the pressure drop across the acid scrubber controlling the core making machines, at least once per day when the scrubber is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.0 and 6.0 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.** ~~in accordance with Section C – Response to Excursions or Exceedances.~~ A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.
- (d) The instruments used for determining the scrubbing liquid flow rate, pH, and pressure drop shall comply with Section C –Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated **or replaced** at least once every six (6) months.

**Change No. 19:** IDEM agrees to make the following changes to the Record Keeping Requirements Provisions throughout Section D of the permit:

To document **the compliance status** with \_\_\_\_\_, the Permittee shall ...

~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

**Change No. 20:** IDEM agrees to make the following changes to the Testing Requirements provisions:

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

No later than September 7, 2011 and in order to demonstrate **the compliance status** with Condition D.1.1, the Permittee shall perform PM and PM<sub>10</sub> testing on Electric Induction Furnaces #3 and #4, ~~using~~ **utilizing** methods as approved by the Commissioner **at least once every five (5) years from the date of the most recent** ~~This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance~~ **Testing contains the Permittee's obligation with regard to the performance testing required by this condition.**

D.5.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

No later than September 7, 2011 and in order to demonstrate **the compliance status** with the total VOC limits, the Permittee shall perform total VOC testing **utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.** ~~utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.~~

**Change No. 21:** IDEM agrees to make the following changes to the Reporting Requirements Provisions throughout Section D of this permit:

A quarterly summary of the information to document **the compliance status** with D.X.X shall be submitted ~~to the addresses listed in Section C – General Reporting Requirements, of this permit,~~ **within not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.** The report submitted by the Permittee does require ~~the a~~ **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. 22:** IDEM, OAQ has decided to state that no notice is required for approved changes in Section B - Permit Revision Under Economic Incentives and Other Programs.

B.20 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.

**Change No. 23:** IDEM, OAQ has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

C.2 Opacity [326 IAC 5-1]

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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:

**Change No. 24:** IDEM, OAQ has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.

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

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**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,~~ 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 ~~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 **or are returning** 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 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 maintain the following records~~ **the reasonable responses steps taken.** :
- (1) ~~monitoring data;~~
  - (2) ~~monitor performance data, if applicable; and~~
  - (3) ~~corrective actions taken.~~

**Change No. 25:** IDEM has added clarification to Condition B.15, Permit Term, as follows:

- B.3 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~~ **The Part 70 Operating Permit**, T167-26842-00007, 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.

**Change No. 26:** The Emergency Occurrence Report has been updated as follows:

### PART 70 OPERATING PERMIT EMERGENCY OCCURRENCE REPORT

...

|  |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12). <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), <del>within</del> <b>no later than four (4) daytime</b> business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and</li><li>• The Permittee must submit notice in writing or by facsimile <del>within</del> <b>no later than two (2) days</b> (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.</li></ul> |
|--|

...

~~Attach a signed certification to complete this report.~~  
**A certification is not required for this report.**

**Change No. 27:** The Quarterly Reports have been updated as follows:

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

#### Part 70 Quarterly Report

Source Name: Gartland Foundry Company  
Source Address: 330 Grant Street, Terre Haute, Indiana 47802  
~~Mailing Address: PO Box 1564, Terre Haute, IN 47802~~  
Part 70 Permit No.: T 167-26842-00007  
Facility: Shell Core Making

...

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

**Change No. 28:** The Quarterly Deviation and Compliance Monitoring Report has been updated as follows:

## **PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

...

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, 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".

...

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

### **Conclusion and Recommendation**

The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 167-30601-00007. The staff recommend to the Commissioner that this Part 70 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 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5378 or toll free at 1-800-451-6027 extension 3-5378.
- (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](http://www.idem.in.gov)

REVISED PSD MINOR LIMITS

Equipment Existing Prior to 2008

| Section D.1.1<br>PSD Minor<br>Limit | Emission Unit/Point, (Section D.1 Description) | Install. Date | Limited Material<br>Throughput<br>(ton/yr) | PM  |     | PM <sub>10</sub>                          |     |
|-------------------------------------|--|---------------|--|---|-----|---|-----|
|                                     |  |               |  | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY |
| (a),(b),(c)                         | Steelcraft, (BH1)                              |               | 18,000                                     | 1.0                                       | 9.0 | 1.0                                       | 9.0 |
|                                     | Electric Induction Furnace #3, EU130, (b)      | 1995          |  |   |     |   |     |
|                                     | Electric Induction Furnace #4, EU140, (c)      | 1995          |  |   |     |   |     |
| (d),(e)                             | Scrap/Charge Handling, EU120, (a)              | 1995          | 18,000                                     | 0.60                                      | 5.4 | 0.36                                      | 3.2 |
| (f),(g),(h)                         | Magnesium Tratment, EU150, (e)                 | 1986          | 9,000                                      | 1.8                                       | 8.1 | 1.8                                       | 8.1 |
|                                     |  |               |  | <b>22.5</b>                               |     | <b>20.3</b>                               |     |

| PSD Minor<br>Limit | Emission Unit/Point, (Section D.2 Description) | Install. Date | Material<br>Throughput | PM<br>TPY | PM <sub>10</sub><br>TPY | VOC<br>Annual<br>Limit (tpy) |
|--------------------|--|---------------|------------------------|-----------|-------------------------|------------------------------|
| Section D.2.5      | Electrostatic Spraybooth, EU710, (f)           | 1983          | 500                    | 0.2 *     | 0.2 *                   | <b>48.0</b>                  |

\* Note: This value represents the limited emission effected by adherence to the VOC PSD Minor Limit and use of dry particulate filters. (Values from 067-17828-00007 Surface Coating Calculations) = VOC Limit x (46.70 PM/69.44 VOC) x (1 - 75% trans. eff.) x (1 - 97.02% ctrl. Eff.)

| Section D.3.1<br>PSD Minor<br>Limit | Emission Unit/Point, (Section D.3 Description)   | Install. Date    | Material<br>Throughput<br>(ton/hr)<br>or<br>Limited (ton/yr) | PM  |                                |      | PM <sub>10</sub>                          |                                |      | VOC                                       |      | CO  |      |
|-------------------------------------|--|------------------|--|---|--------------------------------|------|---|--------------------------------|------|---|------|---|------|
|                                     |  |                  |  | Limited<br>Emission<br>Factor<br>(lb/ton) | Short<br>Term Limit<br>(lb/hr) | TPY  | Limited<br>Emission<br>Factor<br>(lb/ton) | Short<br>Term Limit<br>(lb/hr) | TPY  | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY  | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY  |
| (a),(b)                             | Hosakawa, (BH5)                                  |                  |  | -   | 8.0                            | 35.0 | -   | 10.0                           | 43.8 | -   | -    | -   | -    |
|                                     | Cast Shakeout, EU570, (j)                        | 2001             | < 18.0 *   | -   |                                |      | -   |                                |      |   |      |   |      |
|                                     | Tumble Blast, EU620, (l)(2)                      | 1988             | 5.0  | -   |                                |      | -   |                                |      |   |      |   |      |
|                                     | (4) Grinders, EU640, (l)(4)                      | 1985, 1991       | 8.0  | -   |                                |      | -   |                                |      |   |      |   |      |
| (c),(d),(e),(f)                     | Pouring & Cooling, EU550, (h)                    | 1999             | 18000 (ton/yr)   | 0.8781                                    | -                              | 7.9  | 0.2676                                    | -                              | 2.4  | 2.591                                     | 23.3 | 3.786                                     | 34.1 |
| (g),(h),(i)                         | Wheelabrator-88, (BH3), Cast Shakeout, EU570 (j) | 2001             | 18000 (ton/yr)   | 1.0                                       | -                              | 9.0  | 1.0                                       | -                              | 9.0  | 1.2                                       | 10.8 | 2.0                                       | 18.0 |
| (j),(k),(l)                         | Mold Machines; EU520, EU521, EU530, (k)(2)       | 1902, 1902, 2000 | 450000 (ton/yr)  | 0.0162                                    | -                              | 3.6  | 0.0072                                    | -                              | 1.6  | -   | -    | -   | -    |
| (m)                                 | Wheelabrator-35, (BH2)                           |                  |  | -   | 2.9                            | 12.7 | -   | 2.1                            | 9.2  | -   | -    | -   | -    |
|                                     | Spinblast, EU610, (l)(1)                         | 1986             | 5.0  | -   |                                |      | -   |                                |      |   |      |   |      |
|                                     | Tumbler, EU630, (l)(3)                           | 1989             | 1.0  | -   |                                |      | -   |                                |      |   |      |   |      |
| (n)                                 | (6) Finish Grinders, EU650, (l)(5)               | 1990             | 15100 (ton/yr)   | 1.0                                       | -                              | 7.6  | 1.0                                       | -                              | 7.6  | -   | -    | -   | -    |
|                                     |  |                  |  | <b>75.8</b>                               |                                |      | <b>73.6</b>                               |                                |      | <b>34.1</b>                               |      | <b>52.1</b>                               |      |

\* Note: Casting Shakeout is controlled by both Hosakawa (BH5) and Wheelabrator-35 (BH2) baghouses.

18,000 ton/yr at Pouring/Cooling, Casting Shakeout, and Finish Grinders is effectively Limited due to upstream limit at Induction Furnaces #3 and #4.

Finish Grinding Operation. Use AP-42 Emission Factor Table 12.10-7 Cleaning, Finishing (SCC 3-04-003-40) = 0.3 (lb/ton) emitted to work environment

| Section D.4.1<br>PSD Minor<br>Limit | Emission Unit/Point, (Section D.4 Description) | Install. Date | Limited Material<br>Throughput<br>(ton/yr) | PM  |     | PM <sub>10</sub>                          |     | VOC                                       |     |
|-------------------------------------|--|---------------|--|---|-----|---|-----|---|-----|
|                                     |  |               |  | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY |
| (a):1,2,3,4                         | Shell Core Machine; EU320, EU231, EU322        | 1979          | 1,000                                      | 0.9                                       | 0.5 | 0.9                                       | 0.5 | 0.254                                     | 0.2 |
| (b): 1,2,3,4                        | Oil Core Making; EU410                         | 1902          | 1,000                                      | 0.9                                       | 0.5 | 0.9                                       | 0.5 | 3.05                                      | 1.6 |
| (c): 1,2,3,4                        | Core Wash; EU730                               | 1902          | 2,000                                      | -   | -   | -   | -   | 5.2                                       | 5.2 |
|                                     |  |               |  | <b>1.0</b>                                |     | <b>1.0</b>                                |     | <b>7.0</b>                                |     |

| Section D.5.1<br>PSD Minor<br>Limit | Emission Unit/Point, (Section D.5 Description) | Install. Date    | Limited Material<br>Throughput<br>(ton/yr) | PM  |            | PM <sub>10</sub>                          |            | VOC                                       |            |
|-------------------------------------|--|------------------|--|---|------------|---|------------|---|------------|
|                                     |  |                  |  | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY        | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY        | Limited<br>Emission<br>Factor<br>(lb/ton) | TPY        |
| (a),(b),(c),(d)                     | Isocure Machines; EU222, CBCM-1, CBCM-2        | 1994, 2003, 2003 | 1,100                                      | 0.5                                       | <b>0.3</b> | 0.5                                       | <b>0.3</b> | 10.0                                      | <b>5.5</b> |

Units Existed Prior to 2008: PSD Minor Limits

**TOTALS:**

**PM10**    95.4    tpy  
**VOC**     94.6    tpy  
**CO**      52.1    tpy  
**PM**      99.9    tpy

**Appendix A: Emission Calculations**  
**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**Output Rating (<=600 HP)**  
**Maximum Input Rate (<=4.2 MMBtu/hr)**

**Company Name:** Gartland Foundry Company  
**Address City IN Zip:** 330 Grant Street, Terre Haute, IN 47802  
**Permit Number:** 30601  
**Plt ID:** 00007  
**Reviewer:** Ghassan Shalabi  
**Date:** 7/7/2011

**B. Emissions calculated based on output rating (hp)**

|                                 |           |
|---------------------------------|-----------|
| Output Horsepower Rating (hp)   | 346.0     |
| Maximum Hours Operated per Year | 8760      |
| Potential Throughput (hp-hr/yr) | 3,030,960 |

|                            | Pollutant |        |        |        |        |        |        |
|----------------------------|-----------|--------|--------|--------|--------|--------|--------|
|                            | PM*       | PM10*  | PM2.5* | SO2    | NOx    | VOC    | CO     |
| Emission Factor in lb/hp-h | 0.0022    | 0.0022 | 0.0022 | 0.0021 | 0.0310 | 0.0025 | 0.0067 |
| Potential Emission in tons | 3.33      | 3.33   | 3.33   | 3.11   | 46.98  | 3.81   | 10.12  |

\*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Hazardous Air Pollutants (HAPs)**

|                            | Pollutant |          |          |               |             |              |          | Total PAH HAPs*** |
|----------------------------|-----------|----------|----------|---------------|-------------|--------------|----------|-------------------|
|                            | Benzene   | Toluene  | Xylene   | 1,3-Butadiene | Formaldehyd | Acetaldehyde | Acrolein |                   |
| Emission Factor in lb/hp-h | 6.53E-06  | 2.86E-06 | 2.00E-06 | 2.74E-07      | 8.26E-06    | 5.37E-06     | 6.48E-07 | 1.18E-06          |
| Potential Emission in tons | 9.90E-03  | 4.34E-03 | 3.02E-03 | 4.15E-04      | 1.25E-02    | 8.14E-03     | 9.81E-04 | 1.78E-03          |

\*\*\*PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

\*\*\*\*Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

|   |                 |
|---|-----------------|
| <b>Potential Emission of Total HAPs (tons/yr)</b> | <b>4.11E-02</b> |
|---|-----------------|

**Green House Gas Emissions (GHG)**

|                            | Pollutant |          |          |
|----------------------------|-----------|----------|----------|
|                            | CO2       | CH4      | N2O      |
| Emission Factor in lb/hp-h | 1.15E+00  | 4.63E-05 | 9.28E-06 |
| Potential Emission in tons | 1.74E+03  | 7.02E-02 | 1.41E-02 |

|  |                 |
|--|-----------------|
| <b>Summed Potential Emissions in tons/yr</b> | <b>1.74E+03</b> |
| <b>CO2e Total in tons/yr</b>                 | <b>1.75E+03</b> |

|   |                 |
|---|-----------------|
| <b>Total CO2e for 3 emergency diesel generators</b> | <b>5.25E+03</b> |
|---|-----------------|

**Methodology**

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2

CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

**Option A Methodology**

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] \* [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] \* [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4

GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Option B Methodology**

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] \* [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] \* [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4

GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).



# 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](http://www.idem.IN.gov)

## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Tom Atkins  
Gartland Foundry Co., Inc.  
330 Grant St  
Terre Haute, IN 47802

**DATE:** September 20, 2011

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
Gartland Foundry Co., Inc.  
167-30601-00007

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:  
William Grimes, President, Responsible Official  
Alic Bent, August Mack Environmental Inc. Consultant  
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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

September 20, 2011

TO: Vigo County Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: Gartland Foundry**  
**Permit Number: 167-30601-00007**

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                 | DPABST 9/20/2011<br>Gartland Foundry Co., Inc. 167-30601-00007 (Final)            |   | Type of Mail:<br><br><b>CERTIFICATE OF MAILING ONLY</b> | AFFIX STAMP<br>HERE IF<br>USED AS<br>CERTIFICATE<br>OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 |   |  |

| Line | Article Number | Name, Address, Street and Post Office Address  | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1    |                | Tom Atkins Gartland Foundry Co., Inc. 330 Grant St Terre Haute IN 47802 (Source CAATS) (CONFIRM DELIVERY)      |         |                 |                            |               |                 |          |          |          |                |         |
| 2    |                | William Grimes President Gartland Foundry Co., Inc. 330 Grant St Terre Haute IN 47802 (RO CAATS)               |         |                 |                            |               |                 |          |          |          |                |         |
| 3    |                | Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |         |
| 4    |                | Vigo County Board of Commissioners County Annex, 121 Oak Street Terre Haute IN 47807 (Local Official)          |         |                 |                            |               |                 |          |          |          |                |         |
| 5    |                | Terre Haute City Council and Mayors Office 17 Harding Ave Terre Haute IN 47807 (Local Official)                |         |                 |                            |               |                 |          |          |          |                |         |
| 6    |                | Vigo County Health Department 147 Oak Street Terre Haute IN 47807 (Health Department)                          |         |                 |                            |               |                 |          |          |          |                |         |
| 7    |                | Vigo Co Public Library 1 Library Square Terre Haute IN 47807-3609 (Library)                                    |         |                 |                            |               |                 |          |          |          |                |         |
| 8    |                | J.P. Roehm PO Box 303 Clinton IN 47842 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |         |
| 9    |                | Mr. Alic Bent August Mack Environmental, Inc. 1302 N Meridian St, Suite 300 Indianapolis IN 46202 (Consultant) |         |                 |                            |               |                 |          |          |          |                |         |
| 10   |                | Deb Reeves Vigo County Air Pollution Control 121 Oak Terre Haute IN 47807 (Local Official)                     |         |                 |                            |               |                 |          |          |          |                |         |
| 11   |                | Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |         |
| 12   |                |  |         |                 |                            |               |                 |          |          |          |                |         |
| 13   |                |  |         |                 |                            |               |                 |          |          |          |                |         |
| 14   |                |  |         |                 |                            |               |                 |          |          |          |                |         |
| 15   |                |  |         |                 |                            |               |                 |          |          |          |                |         |

|   |  |  |  |
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| 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 <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
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