



# 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: March 3, 2009

RE: Casting Service / 091-27539-00018

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

## Notice of Decision – Approval

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

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

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

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

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

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

Enclosures  
FNPER-AM.dot12/3/07



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Mr. Mark Swan  
Casting Service  
300 Philadelphia Street,  
LaPorte, IN 46350

March 3, 2009

Re: 091-27539-00018.  
Administrative Amendment to  
Part 70 Permit No.: T 091-6141-00018

Dear Mr. Mark Swan:

Casting Service was issued a permit on May 11, 2006 for a stationary gray and ductile iron foundry. A letter requesting changes to this permit was received on February 25, 2009. Casting Service stated that they are adding a small sand transporter to the facility with a maximum uncontrolled PTE of 6.6 tons per year of PM and PM<sub>10</sub>. Even though this is above the exemption level for an insignificant activity, this small sand transporter still meets the definition of an insignificant activity as defined in 326 IAC 2-7-1(21)(xxiii)(EE). Pursuant to the provisions of 2-7-11a(8)(b) the permit is hereby administratively amended as follows:

The modification consists of the small sand transporter being considered a Specifically Regulated Insignificant Activity and subject to those rules.

All other conditions of the permit shall remain unchanged and in effect. As a convenience, a revised copy of the entire permit is being provided. This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Joe Sachse, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Joe Sachse or extension (4-5378), or dial (317) 234-5378.

Sincerely,

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

Attachments: Copy of the revised permit  
ajs

cc: File -LaPorte County  
LaPorte County Health Department  
U.S. EPA, Region V  
Regional Office  
Air Compliance Inspector  
Compliance Data Section



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## PREVENTION OF SIGNIFICANT DETERIORATION AND PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Casting Service**  
**300 Philadelphia Street**  
**LaPorte, Indiana 46350**

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

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

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

Operation Permit No.: T091-6141-00018	
Issued by: Janet D. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: May 11, 2006  Expiration Date: May 11, 2011
First Significant Permit Modification	091-22920-00018 issued on March 7, 2007
Second Significant Permit Modification	091-24700-00018 issued on November 9, 2007
Third Significant Permit Modification	091-28463-00018 issued on January 18, 2008
PSD/ Significant Permit Modification	091-28060-00018 issued on February 9, 2009
1 <sup>st</sup> Administrative Amendment No. 091-27539-00018	
Original: <i>Tripurari Sinha</i> Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 3, 2009  Expiration Date: May 11, 2011

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**Certification**

**Emergency Occurrence Report**

**Quarterly Reports**

**Quarterly Deviation and Compliance Monitoring Report**

## 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 gray and ductile iron foundry.

Source Address:	300 Philadelphia Street, LaPorte, Indiana 46350
Mailing Address:	300 Philadelphia Street, LaPorte, Indiana 46350
General Source Phone Number:	(219) 362-1000
SIC Code:	3321
County Location:	LaPorte
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules; Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

- (a) one (1) electric induction furnace, referred to as F1, constructed in 1977, with a maximum capacity of 1.67 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (b) one (1) electric induction furnace, referred to as F2, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (c) one (1) electric induction furnace, referred to as F3, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (d) one (1) electric induction furnace, referred to as F4, constructed in 1985, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (e) one (1) electric induction furnace, referred to as F5, constructed in 1990, with a maximum capacity of 3.33 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (f) one (1) scrap and charge handling process, referred to as process P01, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by the melt shop dust collector, referred to as C06 and exhausting to stack S06;

- (g) one (1) natural gas-fired scrap preheater, referred to as emission unit P02, constructed in 1996, with a maximum heat input capacity of 17.8 million Btu per hour, with emissions uncontrolled and exhausting to stack S12;
- (h) one (1) inoculation process, referred to as process P04, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, consisting of two methods of operation described as follows:
  - (1) Inoculation is periodically done in the furnace before discharge. Emissions are controlled by the melt shop dust collector, referred to as C06, exhausting to stack S06.
  - (2) Inoculation is generally done in molten metal transfer ladles, where emissions are currently uncontrolled and exhaust through Vent 24.

Note: Casting Service will re-direct inoculation emissions exhausting through Vent 24 to the melt shop dust collector, C06, within six (6) months after issuance of the Part 70 permit.
- (i) one (1) pouring and casting operation, referred to as process P06, and one (1) castings cooling operation, referred to as process P07, both constructed prior to 1972, with a maximum combined capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;
- (j) one (1) magnesium treatment process station using wire injection, referred to as process P05a, constructed in 1998, with a maximum capacity of 13.76 tons of iron per hour, with emissions controlled by dust collector C14, and exhausting to stack S14;
- (k) one (1) magnesium treatment process station using wire injection, referred to as process P05b, constructed in 1994, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by dust collector C09, exhausting to stack S09;
- (l) expendable pattern casting, referred to as process P08, constructed in 1978, with a maximum capacity of 68.75 pounds of foam per hour, with emissions uncontrolled and exhausting inside the building;
- (m) One (1) shakeout system, consisting of the following:
  - (1) one (1) high bay shakeout system, referred to as process P09a, constructed in 1991, with a maximum throughput capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions controlled by the high bay shakeout dust collector, referred to as C01, and exhausting to stack S01;
  - (2) one (1) center bay shakeout system, referred to as process P09b, constructed in 1990, with a maximum throughput capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions controlled by the center bay shakeout dust collector, referred to as C02, and exhausting to stack S02;
- (n) one (1) mechanical reclamation system, referred to as process P10, constructed in 1991 and modified in 1999, with a maximum capacity of 68.8 tons of sand per hour, including one (1) Didion rotary lump crusher and one (1) rotoconditioner with emissions controlled by the mechanical reclaim dust collector, referred to as C04, and exhausting to stack S04;
- (o) two (2) pneumatic sand transporters for the mechanical reclamation system, constructed in 1999, each with a maximum capacity of 15 tons of sand per hour, with emissions controlled by dust collector C04, exhausting to stack S04;

- (p) one (1) thermal sand reclamation system including a natural gas-fired calcining unit, with a maximum heat input capacity of 6.4 million British thermal units (MMBtu) per hour, referred to as process P11, constructed in 2005, with a maximum capacity of 3.125 tons of sand per hour, with emissions controlled by the thermal dust collector, referred to as C05, and exhausting to stack S05;
- (q) Shotblasting operation consisting of the following:
  - (1) one (1) pneumatic room blast operation, referred to as process P12a, constructed prior to 1972, with a maximum capacity of 1.376 tons of metal per hour, with emissions controlled by the room blast dust collector, referred to as C09, and exhausting through stack S09;
  - (2) Process 12b, consisting of the following:
    - (A) one (1) small shotblast machine, referred to as the small castings blaster, constructed prior to 1972, and one (1) BCP shot blast machine, constructed in 1991, with a maximum combined capacity of 13.76 tons of metal per hour, with emissions controlled by the blast operations dust collector, referred to as C03, and exhausting to stack S03;
    - (B) One (1) table shotblaster, approved for construction in 2007, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by a dust collector, referred to as C16, and exhausting to stack S16;
- (r) cleaning and grinding operations, referred to as process P13, constructed prior to 1972 and modified in 2001, with a maximum capacity of 13.76 tons of metal per hour, consisting of two (2) grinding areas with emissions from one (1) area controlled by a dust collector, referred to as C15, exhausting to stack S15, and emissions from the other area controlled by a dust collector, referred to as C07, exhausting to stack S07;
- (s) casting painting operation, referred to as process P14, utilizing air atomization spray, constructed in 1975, using a maximum of 7.25 pounds of coating per hour and 2.0 pounds of thinner per hour, with a dry filter for overspray control, and emissions exhausting to stack S11;
- (t) mold making operations, referred to as process P16, constructed prior to 1972, using a phenolic nobake binder system with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;
- (u) core making operations, referred to as process P17, constructed prior to 1972 and modified in 1985 and in 2005 with the addition of a High Bay Core Mixer, using phenolic nobake, phenolic urethane nobake, furan nobake, and SO<sub>2</sub> binder systems with a maximum capacity of 68.8 tons of sand per hour, with SO<sub>2</sub> emissions controlled by a packed tower scrubber, referred to as C10, which exhausts to stack S10, and with particulate emissions controlled by the core room dust collector, referred to as C08, exhausting to stack S08;  
  
Note: The SO<sub>2</sub> scrubber is voluntarily installed and operated.
- (v) core and mold refractory wash coating operation, constructed prior to 1972, referred to as process P18, utilizing dip and flow coating, with emissions exhausting to stack S13;

- (w) one (1) pattern repair shop, referred to as process P20, constructed prior to 1972, including woodworking equipment for routine maintenance and repair of wood patterns, with emissions controlled by a dust collector, referred to as C07, and exhausting to stack S07; and
- (x) pattern and core box release agent coating operation, referred to as process P20a, utilizing air atomization spray, constructed prior to 1972, with emissions exhausting inside the building.
- (y) one (1) pneumatic sand transport system for the mold making operations, constructed in 2005, with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting into the building.

Under 40 CFR 63, Subpart EEEEE, the five (5) electric induction furnaces, the scrap preheater, and the fugitive emissions from the foundry operations are considered an existing affected source.

Under 40 CFR 63, Subpart MMMM, the casting painting operation, referred to as process P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation are considered an existing affected source.

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) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6: one (1) Safety Kleen maintenance parts washer with a remote solvent reservoir. [326 IAC 8-3-2]
- (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) 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]
  - (1) one (1) pneumatic sand transporter/silo, to be constructed in 2009, identified as ST-1, with a maximum capacity of 16 tons of sand per hour.

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 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) This permit, T091-6141-00018, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 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.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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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.5 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.6 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.7 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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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- (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 in letter form no later than July 1 of each year to:

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

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

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

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

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- (a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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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, and IDEM Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

and

IDEM Northwest Regional Office

Telephone Number: 1-888-209-8892 or  
Telephone Number: 219-757-0265  
Facsimile Number: 219-757-0267

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

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

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

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to document that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
  - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.
- This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T091-6141-00018 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

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

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

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

**B.18 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 shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

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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  
Permits 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, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-

20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.

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

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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 2-2-2.

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

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

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

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

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to

whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

**B.25** 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.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

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

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

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

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

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

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

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

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

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

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

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

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

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

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

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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 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

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

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

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

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

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

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

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

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

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

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

- (3) corrective actions taken.

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

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

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

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

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

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

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

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

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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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (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, 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) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and 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 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.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]  
[326 IAC 2-3]

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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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and 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 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
- (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.

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

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

Reports required in this part shall be submitted to:

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

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

### **Stratospheric Ozone Protection**

#### **C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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 standards for recycling and emissions reduction:

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

**SECTION D.1**

**FACILITY OPERATION CONDITIONS**

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

- (a) one (1) electric induction furnace, referred to as F1, constructed in 1977, with a maximum capacity of 1.67 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (b) one (1) electric induction furnace, referred to as F2, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (c) one (1) electric induction furnace, referred to as F3, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (d) one (1) electric induction furnace, referred to as F4, constructed in 1985, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (e) one (1) electric induction furnace, referred to as F5, constructed in 1990, with a maximum capacity of 3.33 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (f) one (1) scrap and charge handling process, referred to as process P01, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by the melt shop dust collector, referred to as C06 and exhausting to stack S06;
- (g) one (1) natural gas-fired scrap preheater, referred to as emission unit P02, constructed in 1996, with a maximum heat input capacity of 17.8 million Btu per hour, with emissions uncontrolled and exhausting to stack S12;
- (h) one (1) inoculation process, referred to as process P04, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, consisting of two methods of operation described as follows:
  - (1) Inoculation is periodically done in the furnace before discharge. Emissions are controlled by the melt shop dust collector, referred to as C06, exhausting to stack S06.
  - (2) Inoculation is generally done in molten metal transfer ladles, where emissions are currently uncontrolled and exhaust through Vent 24.
- (i) one (1) pouring and casting operation, referred to as process P06, and one (1) castings cooling operation, referred to as process P07, both constructed prior to 1972, with a maximum combined capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;

Under 40 CFR 63, Subpart EEEEE, the five (5) electric induction furnaces, the scrap preheater, and the fugitive emissions from the foundry operations, which include any emission source housed in a building or structure, are considered an existing affected source.

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

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

### **D.1.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2-3]**

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Pursuant to 326 IAC 2-2-3 (PSD), BACT shall include the following conditions:

- (a) The melt furnaces F1, F2, F3, F4, and F5 shall be controlled by a dust collector at all times that the melt furnaces F1, F2, F3, F4, and F5 are in operation.
- (b) Filterable PM emissions from dust collector C06 controlling the melt furnaces, the scrap and charge handling process, and the inoculation process shall not exceed 0.002 grains per dry standard cubic foot, 1.48 pounds per hour, and 0.216 pound per ton of metal throughput.
- (c) Total (filterable and condensable) PM/PM10 emissions from dust collector C06 controlling the melt furnaces, the scrap and charge handling process, and the inoculation process shall not exceed 0.005 grains per dry standard cubic foot, 3.71 pounds per hour and 0.54 pound per ton of metal throughput.
- (d) The throughput of metal from the electric induction furnaces, from the scrap and charge handling process, and to the inoculation process, shall not exceed 60,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (e) The opacity from the melt shop dust collector, exhausting to stack S06, shall not exceed ten percent (10%) opacity based on a six-minute average (24 readings taken in accordance with 40 CFR Part 60, Appendix A, Method 9).
- (f) The opacity from any building opening where melting occurs shall not exceed three percent (3%) opacity based on a six-minute average (24 readings taken in accordance with 40 CFR Part 60, Appendix A, Method 9).

### **D.1.2 PSD Air Quality Analysis [326 IAC 2-2-4]**

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The following limits shall also apply pursuant to 326 IAC 2-2-4 as a result of the air dispersion modeling analysis performed:

- (a) Total PM emissions from the pouring and casting operation and the casting cooling operation shall not exceed 3.5 pounds per ton of metal throughput;
- (b) Total PM10 emissions from the pouring and casting operation and the casting cooling operation shall not exceed 1.71 pounds per ton of metal throughput;
- (c) The throughput of metal to the pouring and casting operation and the casting cooling operation shall not exceed 60,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (d) The Permittee shall re-direct inoculation emissions exhausting through Vent 24 to the melt shop dust collector, C06, within six (6) months after issuance of the Part 70 permit. The PM and PM10 emission limits for the melt shop dust collector, C06, stated above will continue to apply after all inoculation emissions are vented to the melt shop dust collector.

### **D.1.3 PSD Minor Limit [326 IAC 2-2]**

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- (a) The throughput of metal from the electric induction furnaces, from the scrap and charge handling process, and to the inoculation process shall not exceed 60,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) Total lead emissions from dust collector C06 controlling the five (5) electric induction furnaces, the scrap and charge handling operation, and the inoculation operation shall not

exceed 0.022 pound per ton of metal throughput.

Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable for lead emissions.

**D.1.4 Particulate [326 IAC 6-3-2]**

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- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed in the table below shall be as follows:

Facility	Control Device	Process Weight Rate (tons/hr)	Emission Limit (lbs PM/hr)
Inoculation process P04	Uncontrolled	13.76	23.75
Pouring/casting P06 and Castings cooling P07	Uncontrolled	82.56	49.37

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

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

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

or

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

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

- (b) The Permittee shall re-direct inoculation emissions exhausting through Vent 24 to the melt shop dust collector, C06, within six (6) months after issuance of the Part 70 permit. Upon completion of this requirement, the limit pursuant to 326 IAC 6-3-2 for the inoculation process shall no longer apply.

**Compliance Determination Requirements**

**D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

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- (a) After the inoculation process has been re-directed to the meltshop baghouse, in order to demonstrate compliance with Conditions D.1.1, D.1.2, D.1.3 and D.1.4, the Permittee shall perform PM, PM10, lead, and opacity testing on stack S06 before February 2012, using methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance determinations. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) In order to demonstrate compliance with Conditions D.1.1 D.1.2 and D.1.4, the Permittee shall perform PM and PM10 testing before May 2012 on the pouring/casting and casting cooling operation using 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 determination. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

**D.1.6 Particulate Control [326 IAC 2-7-6(6)]**

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- (a) In order to comply with conditions D.1.1, D.1.2, D.1.3 and D.1.4, the melt shop dust collector, referred to as C06, for particulate control shall be in operation and control emissions from the five (5) electric induction furnaces, the scrap and charge handling process, and the inoculation process at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment dust collector, 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 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.1.7 Visible Emissions Notations**

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- (a) Visible emission notations of the melt shop dust collector (C06) stack 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 in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### **D.1.8 Parametric Monitoring**

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The Permittee shall record the pressure drop across the dust collector used in conjunction with the five (5) electric induction furnaces, the scrap and charge handling process, and the inoculation process, at least once per day when the five (5) electric induction furnaces, the scrap and charge handling process, and the inoculation process are in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

#### D.1.9 Broken or Failed Bag Detection

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- (a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

#### D.1.10 Record Keeping Requirements

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- (a) To document compliance with Conditions D.1.1(d) and D.1.3(a), the Permittee shall maintain records of the throughput of metal from the electric induction furnaces, from the scrap and charge handling and to the inoculation operation for each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (b) To document compliance with Condition D.1.2(c), the Permittee shall maintain records of the throughput of metal to the pouring and casting operation, and to the casting cooling operation for each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (c) To document compliance with Condition D.1.7 - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of the melt shop dust collector (C06) 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).
- (d) To document compliance with Condition D.1.8 - Parametric Monitoring, the Permittee shall maintain records once per day of the pressure drop across the melt shop dust collector (C06) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.11 Reporting Requirements

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- (a) A quarterly summary of the information to document compliance with Conditions D.1.1(d), and D.1.3(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A quarterly summary of the information to document compliance with Condition D.1.2(c) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
  
- (a) A notification of the date that inoculation emissions were re-directed to the melt shop dust collector C06 shall be submitted to the address listed in Section C – General Reporting Requirements, of this permit, within thirty (30) days of re-directing inoculation emissions to the melt shop dust collector C06.

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

- (j) one (1) magnesium treatment process station using wire injection, referred to as process P05a, constructed in 1998, with a maximum capacity of 13.76 tons of iron per hour, with emissions controlled by dust collector C14, and exhausting to stack S14;
- (k) one (1) magnesium treatment process station using wire injection, referred to as process P05b, constructed in 1994, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by dust collector C09, exhausting to stack S09;
- (m) One (1) shakeout system, consisting of the following:
  - (1) one (1) high bay shakeout system, referred to as process P09a, constructed in 1991, with a maximum throughput capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions controlled by the high bay shakeout dust collector, referred to as C01, and exhausting to stack S01;
  - (2) one (1) center bay shakeout system, referred to as process P09b, constructed in 1990, with a maximum throughput capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions controlled by the center bay shakeout dust collector, referred to as C02, and exhausting to stack S02;
- (n) one (1) mechanical reclamation system, referred to as process P10, constructed in 1991 and modified in 1999, with a maximum capacity of 68.8 tons of sand per hour, including one (1) Didion rotary lump crusher and one (1) rotoconditioner with emissions controlled by the mechanical reclaim dust collector, referred to as C04, and exhausting to stack S04;
- (o) two (2) pneumatic sand transporters for the mechanical reclamation system, constructed in 1999, each with a maximum capacity of 15 tons of sand per hour, with emissions controlled by dust collector C04, exhausting to stack S04;
- (p) one (1) thermal sand reclamation system including a natural gas-fired calcining unit, with a maximum heat input capacity of 6.4 million British thermal units (MMBtu) per hour, referred to as process P11, constructed in 2005, with a maximum capacity of 3.125 tons of sand per hour, with emissions controlled by the thermal dust collector, referred to as C05, and exhausting to stack S05;
- (q) Shotblasting operation consisting of the following:
  - (1) one (1) pneumatic room blast operation, referred to as process P12a, constructed prior to 1972, with a maximum capacity of 1.376 tons of metal per hour, with emissions controlled by the room blast dust collector, referred to as C09, and exhausting through stack S09;
  - (2) Process 12b, consisting of the following:
    - (A) one (1) small shotblast machine, referred to as the small castings blaster, constructed prior to 1972, and one (1) BCP shot blast machine, constructed in 1991, with a maximum combined capacity of 13.76 tons of metal per hour, with emissions controlled by the blast operations dust collector, referred to as C03, and exhausting to stack S03;
    - (B) One (1) table shotblaster, approved for construction in 2007, with a

maximum capacity of 13.76 tons of metal per hour, with emissions controlled by a dust collector, referred to as C16, and exhausting to stack S16;

- (r) cleaning and grinding operations, referred to as process P13, constructed prior to 1972 and modified in 2001, with a maximum capacity of 13.76 tons of metal per hour, consisting of two (2) grinding areas with emissions from one (1) area controlled by a dust collector, referred to as C15, exhausting to stack S15, and emissions from the other area controlled by a dust collector, referred to as C07, exhausting to stack S07.

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

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

#### **D.2.1 PSD Air Quality Analysis Limits [326 IAC 2-2-4]**

The following limits shall apply pursuant to 326 IAC 2-2 as a result of the air dispersion modeling analysis performed in support of the PSD BACT determination in condition D.1.1. The limits in (p), (q), and (r) below shall also apply pursuant to Significant Source Modification No. 091-21258-00018, issued on September 2, 2005, to render the requirements of 326 IAC 2-2 (PSD) not applicable to the thermal sand reclamation unit (P11):

- (a) The throughput of metal to the magnesium wire treatment processes, P05a and P05b, shall not exceed 50,000 tons per twelve (12) consecutive month period, and the throughput of metal from the pneumatic room blast operations, P12a, shall not exceed 4,500 tons per twelve (12) consecutive month period, for a combined metal throughput limit of 54,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) Total PM emissions from dust collectors C09 and C14 controlling the magnesium wire treatment processes, identified as P05a and P05b, and the pneumatic room blast operations, identified as P12a, shall not exceed 0.130 pound per ton of combined metal throughput;
- (c) Total PM10 emissions from dust collectors C09 and C14 controlling the magnesium wire treatment processes, identified as P05a and P05b, and the pneumatic room blast operations, identified as P12a, shall not exceed 0.103 pound per ton of combined metal throughput;
- (d) The combined throughput of metal from the high and center bay shakeout operations, P09a and P09b, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (e) Total PM emissions from dust collectors C01 and C02 controlling the high and center bay shakeout operations, identified as P09a and P09b, shall not exceed 0.61 pound per ton of combined metal throughput;
- (f) Total PM10 emissions from dust collectors C01 and C02 controlling the high and center bay shakeout operations, identified as P09a and P09b, shall not exceed 0.424 pound per ton of combined metal throughput;
- (g) The combined throughput of metal from the small castings blaster and BCP shot blast, P12b, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (h) Total PM emissions from dust collector C03 controlling the small casting blaster and BCP

- shot blast, identified as P12b, shall not exceed 0.25 pound per ton of combined metal throughput;
- (i) Total PM10 emissions from dust collector C03 controlling the small casting blaster and BCP shot blast, identified as P12b, shall not exceed 0.025 pound per ton of combined metal throughput;
  - (j) The combined throughput of metal from the cleaning and grinding operation, P13, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
  - (k) Total PM emissions from dust collectors C07 and C15 controlling the cleaning and grinding operation, identified as P13, shall not exceed 0.012 pound per ton of combined metal throughput;
  - (l) Total PM10 emissions from dust collectors C07 and C15 controlling the cleaning and grinding operation, identified as P13, shall not exceed 0.013 pound per ton of combined metal throughput;
  - (m) The total throughput of sand from the mechanical reclamation system, P10, shall not exceed 250,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
  - (n) Total PM emissions from dust collector C04 controlling the mechanical reclamation system, identified as P10, shall not exceed 0.198 pound per ton of sand throughput;
  - (o) Total PM10 emissions from dust collector C04 controlling the mechanical reclamation system, identified as P10, shall not exceed 0.112 pound per ton of sand throughput;
  - (p) The total throughput of sand to the thermal sand reclamation system, P11, shall not exceed 27,375 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
  - (q) Total PM emissions from dust collector C05 controlling the thermal sand reclamation system shall not exceed 0.412 pound per ton of sand throughput;
  - (r) Total PM10 emissions from dust collector C05 controlling the thermal sand reclamation system shall not exceed 0.37 pound per ton of sand throughput;
  - (s) The Permittee shall increase the heights of stacks S04 and S05 from the existing stack height of 40 feet above ground to 50 feet above ground, within one (1) year after issuance of the Part 70 permit.

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

- (a) The following limits shall limit PM and PM10 emissions from the following emission units so that the net emissions increase of PM and PM10 from the installation of these units are less than the PSD significant thresholds so that the requirements of 326 IAC 2-2 (PSD) do not apply:
  - (1) Total PM emissions from dust collector C01, controlling the high bay shakeout operation shall not exceed 49.37 pounds per hour;
  - (2) Total PM10 emissions from the dust collector C01, controlling the high bay shakeout operation shall not exceed 49.37 pounds per hour;
  - (3) Total PM emissions from the dust collector C04, controlling the mechanical sand

reclamation operation shall not exceed 47.6 pounds per hour;

- (4) Total PM10 emissions from the dust collector C04, controlling the mechanical sand reclamation operation shall not exceed 47.6 pounds per hour;
  - (5) Total PM emissions from the dust collector C05, controlling the thermal sand reclamation operation shall not exceed 13.62 pounds per hour;
  - (6) Total PM10 emissions from the dust collector C05, controlling the thermal sand reclamation operation shall not exceed 13.62 pounds per hour;
  - (7) Total PM emissions from the dust collector C03, controlling the BCP shot blast shall not exceed 23.75 pounds per hour;
  - (8) Total PM10 emissions from the dust collector C03, controlling the BCP shot blast shall not exceed 23.75 pounds per hour.
- (b) The following limits will ensure that PM and PM10 emissions from the following units are less than 25 and 15 tons per year, respectively, so that the requirements of 326 IAC 2-2 (PSD) do not apply:
- (1) Total PM emissions from dust collector C02, controlling the center bay shakeout operation (P09b), installed in 1990, shall not exceed 5.68 pounds per hour;
  - (2) Total PM10 emissions from dust collector C02, controlling emissions from the center bay shakeout operation (P09b), installed in 1990, shall not exceed 3.4 pounds per hour;
  - (3) Total PM emissions from dust collector C09, controlling emissions from the magnesium treatment process station using wire injection (P05b), installed in 1994, shall not exceed 5.68 pounds per hour;
  - (4) Total PM10 emissions from dust collector C09, controlling emissions from the magnesium treatment process station using wire injection (P05b), installed in 1994, shall not exceed 3.4 pounds per hour;
  - (5) Total PM emissions from dust collector C14, controlling emissions from the magnesium treatment process station using wire injection (P05a), installed in 1998, shall not exceed 5.68 pounds per hour;
  - (6) Total PM10 emissions from dust collector C14, controlling emissions from the magnesium treatment process station using wire injection (P05a), installed in 1998, shall not exceed 3.4 pounds per hour;
  - (7) Pursuant to CP 091-10136-00018, issued on April 21, 1999, and CP 091-10594-00018, issued on July 22, 1999, total PM emissions from dust collector C04, controlling the mechanical sand reclamation operation (P10), modified in 1999, including the Didion rotary lump crusher, the rotoconditioner and the two (2) pneumatic sand transporters, shall not exceed 5.48 pounds per hour average over three (3) hours.
  - (8) Pursuant to CP 091-10136-00018, issued on April 21, 1999, and CP 091-10594-00018, issued on July 22, 1999, total PM10 emissions from dust collector C04, controlling the mechanical sand reclamation operation (P10), modified in 1999, including the Didion rotary lump crusher, the rotoconditioner and the two (2) pneumatic sand transporters, shall not exceed 3.40 pounds per hour average

over three (3) hours.

- (9) Pursuant to Significant Source Modification No. 091-14518-00018, issued on October 25, 2001, total PM emissions from dust collector C15, controlling one area of the cleaning and grinding operations (P13), modified in 2001, shall not exceed 5.7 pounds per hour, averaged over three (3) hours.
- (10) Pursuant to Significant Source Modification No. 091-14518-00018, issued on October 25, 2001, total PM10 emissions from dust collector C15, controlling one area of the cleaning and grinding operations (P13), modified in 2001, shall not exceed 3.42 pounds per hour, averaged over three (3) hours.
- (c) Compliance with the following limits shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to these units.
  - (1) The PM emissions from dust collector C16 controlling the table shot blaster, P12b, shall not exceed 5.68 pounds per hour;
  - (2) The PM10 emissions from dust collector C16 controlling the table shot blaster, P12b, shall not exceed 3.40 pounds per hour.

**D.2.3 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed in the table below shall be as follows:

Facility	Control Device	Process Weight Rate (tons/hr)	Emission Limit (lbs PM/hr)
Magnesium wire treatment processes P05a and P05b	Dust collector C14 and Room blast dust collector C09	13.76	23.75
High bay shakeout system P09a	high bay shakeout dust collector C01	82.56	49.37
Center bay shakeout system P09b	center bay shakeout dust collector C02	82.56	49.37
Mechanical reclamation system P10	mechanical reclaim dust collector C04	68.8	47.60
Thermal sand reclamation system P11	Dust collector C05	3.125	8.80
Pneumatic room blast operations P12a	room blast dust collector C09	1.376	5.08
Small casting blaster and BCP blast, P12b	blast operations dust collector C03	13.76	23.75
Table shotblaster, P12b	dust collector C16	13.76	23.75
Cleaning and grinding operations P13	Dust collectors C15 and C07	13.76	23.75

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

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
 P = process weight rate in tons per hour

or

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

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

#### D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

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- (a) VOC emissions from the high bay (P09a) shakeout operation shall not exceed 1.2 pounds of VOC per ton of metal throughput;
- (b) The throughput of metal from the high bay (P09a) shakeout operation shall not exceed 41,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (c) VOC emissions from the center bay (P09b) shakeout operation shall not exceed 1.2 pounds of VOC per ton of metal throughput;
- (d) The throughput of metal from the center bay (P09b) shakeout operation shall not exceed 41,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The metal throughput limits and the VOC emission limits will insure that VOC emissions from each of the high bay shakeout operation (P09a) and the center bay shakeout operation (P09b) are limited to less than 25 tons per year. Therefore, compliance with this limit makes 326 IAC 8-1-6 (BACT) not applicable.

Compliance with the metal throughput limit and VOC emission limit for the high bay and center bay shakeout operations (P09a and P09b) will also render the requirements of 326 IAC 2-2 (PSD) not applicable for the high bay and center bay shakeout operations (P09a and P09b).

#### D.2.5 Burning Regulations – Incinerators [326 IAC 4-2]

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That pursuant to 326 IAC 4-2-2 (Incinerators) and Significant Source Modification No. 091-21258-00018, issued on September 2, 2005, the calcining unit, which is part of the thermal sand reclamation system, shall:

- (a) Consist of primary and secondary chambers or the equivalent.
- (b) Be equipped with a primary burner unless burning wood products.
- (c) Comply with 326 IAC 5-1 (Opacity Limitations) and 326 IAC 2 (Permit Review Rules).
- (d) Be maintained properly as specified by the manufacturer and approved by IDEM.
- (e) Be operated according to the manufacturer's recommendation and only burn waste approved by the IDEM.
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators.
- (g) Be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemical or gases, or noxious odors are prevented.
- (h) Not create a nuisance or a fire hazard.

- (i) Not emit particulate matter (PM) in excess of 0.3 pound per 1000 pounds of dry exhaust gas corrected to 50% excess air.

The operation of this calcining unit shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

### **Compliance Determination Requirements**

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

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- (a) In order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM10 testing before May 2012 on the magnesium wire treatment process exhausting through dust collectors C14 and C09, using 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 determination. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) In order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM10 testing before October 2012 on the mechanical reclamation system exhausting through dust collector C04 and the thermal sand reclamation system exhausting through dust collector C05 using methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance determination. Testing shall be conducted in accordance with Section C - Performance Testing.
- (c) In order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, the Permittee shall perform PM and PM10 testing before October 2012 on the high bay shakeout operation exhausting through dust collector C01 and the center bay shakeout operation exhausting through dust collector C02 using methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance determination. Testing shall be conducted in accordance with Section C - Performance Testing.

#### **D.2.7 Particulate Control [326 IAC 2-7-6(6)]**

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

- (a) The dust collector C01 for particulate control shall be in operation and control emissions from the high bay shakeout system at all times that the high bay shakeout system is in operation;
- (b) The dust collector C02 for particulate control shall be in operation and control emissions from the center bay shakeout system at all times that the center bay shakeout system is in operation;
- (c) The dust collector C03 for particulate control shall be in operation and control emissions from the two (2) small casting blasters and one (1) BCP blast at all times that the two (2) small casting blasters and one (1) BCP blast are in operation;
- (d) The dust collector C04 for particulate control shall be in operation and control emissions from the mechanical reclamation system, including the Didion rotary lump crusher, the rotoconditioner, and the two (2) pneumatic sand transporters, at all times that the mechanical reclamation system, including the Didion rotary lump crusher, the rotoconditioner, and the two (2) pneumatic sand transporters, is in operation;
- (e) The dust collector C05 for particulate control shall be in operation and control emissions

from the thermal sand reclamation system at all times that the thermal sand reclamation system is in operation;

- (f) The dust collectors, identified as C07 and C15 for particulate control shall be in operation and control emissions from the pattern shop cleaning and grinding operation and the cleaning Room cleaning and grinding operation, respectively, at all times that their associated cleaning and grinding operation is in operation;
- (g) The dust collector C09 for particulate control shall be in operation and control emissions from the magnesium wire treatment process (P05b) and the pneumatic room blast operation at all times that the magnesium wire treatment process (P05b) and the pneumatic room blast operation are in operation;
- (h) The dust collector C14 for particulate control shall be in operation and control emissions from the magnesium wire treatment process (P05a) at all times that the magnesium wire treatment process (P05a) is in operation.
- (i) The dust collector C16 for particulate control shall be in operation and control emissions from the table shotblaster at all times that the table shotblaster is in operation.
- (j) In the event that bag failure is observed in a multi-compartment dust collector, 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 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.2.8 Visible Emissions Notations**

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- (a) Visible emission notations of each of the dust collectors C01, C02, C03, C04, C05, C07, C09, C14, C15, and C16 stack 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.2.9 Parametric Monitoring**

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The Permittee shall record the pressure drop across each of the dust collectors C01, C02, C03, C04, C05, C07, C09, C14, C15, and C16 used in conjunction with the high and center bay shakeout operations, the one (1) small castings blaster and one (1) BCP shot blast, the mechanical reclamation system (including the Didion rotary lump crusher, the rotoconditioner, and

the two (2) pneumatic sand transporters), the thermal sand reclamation system, the cleaning and grinding operation, the magnesium wire treatment process, the pneumatic room blast operations, and the table shotblaster at least once per day when their associated facilities are in operation. When for any one reading, the pressure drop across dust collector C01, C02, or C03 is outside the normal range of 3.0 and 9.0 inches of water or a range established during the latest stack test, or the pressure drop across dust collector C04 is outside the normal range of 4.0 and 9.0 inches of water or a range established during the latest stack test, or the pressure drop across dust collector C05 or C09 is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, or the pressure drop across dust collector C07, C14, C15, or C16 is outside the normal range of 3.0 and 7.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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.2.10 Broken or Failed Bag Detection

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- (a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

#### D.2.11 Record Keeping Requirements

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- (a) To document compliance with Condition D.2.1(a), (d), (g), and (j) and D.2.4(b) and (d), the Permittee shall maintain records of the throughput of metal to the magnesium wire treatment processes, from the high and center bay shakeout operations, from the pneumatic room blast operations, from the small castings blasters and BCP shot blast, and from the cleaning and grinding operation for each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (b) To document compliance with Condition D.2.1(m) and (p), the Permittee shall maintain records of the throughput of sand from the mechanical reclamation system and to the thermal sand reclamation system for each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (c) To document compliance with Condition D.2.8 - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of each of the dust collectors stack

exhausts once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

- (d) To document compliance with Condition D.2.9 - Parametric Monitoring, the Permittee shall maintain records once per day of the pressure drop across each of the dust collectors 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 a pressure drop reading (e.g. the process did not operate that day).
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1(a), (d), (g), and (j), Condition D.2.4(b) and (d), and Condition D.2.1(m) and (p) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

### SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (l) expendable pattern casting, referred to as process P08, constructed in 1978, with a maximum capacity of 68.75 pounds of foam per hour, with emissions uncontrolled and exhausting inside the building;
- (s) casting painting operation, referred to as process P14, utilizing air atomization spray, constructed in 1975, using a maximum of 7.25 pounds of coating per hour and 2.0 pounds of thinner per hour, with a dry filter for overspray control, and emissions exhausting to stack S11;
- (t) mold making operations, referred to as process P16, constructed prior to 1972, using a phenolic nobake binder system with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;
- (u) core making operations, referred to as process P17, constructed prior to 1972 and modified in 1985 and in 2005 with the addition of a High Bay Core Mixer, using phenolic nobake, phenolic urethane nobake, furan nobake, and SO<sub>2</sub> binder systems with a maximum capacity of 68.8 tons of sand per hour, with SO<sub>2</sub> emissions controlled by a packed tower scrubber, referred to as C10, which exhausts to stack S10, and with particulate emissions controlled by the core room dust collector, referred to as C08, exhausting to stack S08;

Note: The SO<sub>2</sub> scrubber is voluntarily installed and operated.

- (v) core and mold refractory wash coating operation, constructed prior to 1972, referred to as process P18, utilizing dip and flow coating, with emissions exhausting to stack S13;
- (w) one (1) pattern repair shop, referred to as process P20, constructed prior to 1972, including woodworking equipment for routine maintenance and repair of wood patterns, with emissions controlled by a dust collector, referred to as C07, and exhausting to stack S07.
- (x) pattern and core box release agent coating operation, referred to as process P20a, utilizing air atomization spray, constructed prior to 1972, with emissions exhausting inside the building.
- (y) one (1) pneumatic sand transport system for the mold making operations, constructed in 2005, with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting into the building.

Under 40 CFR 63, Subpart M, the casting painting operation, referred to as process P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation are considered an existing affected source.

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

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

##### D.3.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6 (BACT), the following shall apply:

- (a) When the phenolic urethane nobake binder is used in the core making operations, referred to as P17, the VOC emission from the resin and catalyst shall not exceed 6.39

pounds of VOC per ton of sand.

- (b) When the furan nobake binder is used in the core making operations, referred to as P17, the VOC emission from the resin shall not exceed 21.82 pounds of VOC per ton of sand.
- (c) When the phenolic urethane nobake binder is used in the core making operations, the sand throughput to the core making operations, referred to as P17, shall not exceed 12,200 tons per 12 consecutive month period with compliance determined at the end of each month.
- (d) When the furan nobake binder is used in the core making operations, the sand throughput to the core making operations, referred to as P17, shall not exceed 3,547 tons per 12 consecutive month period with compliance determined at the end of each month.

#### D.3.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

- (a) The following limits shall apply pursuant to 326 IAC 2-2 as a result of the air dispersion modeling analysis performed in support of the PSD BACT determination in condition D.1.1. The limits in (a)(1), (2), and (3) below shall also apply pursuant to Significant Source Modification No. 091-21258-00018, issued on September 2, 2005, to render the requirements of 326 IAC 2-2 (PSD) not applicable to the core making operations (P17):
  - (1) Total PM emissions from dust collector C08 controlling the core making operations shall not exceed 0.16 pound per ton of sand throughput;
  - (2) Total PM10 emissions from dust collector C08 controlling the core making operations shall not exceed 0.024 pound per ton of sand throughput.
  - (3) The throughput of sand to the core making operations, P17, shall not exceed 70,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The following limits, which will ensure that the VOC emissions increase for the modification in 1990 do not exceed 100 tons per year, will exempt the source from the requirement to perform an air quality analysis for VOC:
  - (1) The usage of VOC in the pattern and core box release agent coating operation (P20a) shall not exceed 86,500 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month;
  - (2) The throughput of foam in the expendable pattern casting operation (P08) shall not exceed 200,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month;
  - (3) Emissions of VOC from the expendable pattern casting operation (P08) shall not exceed 0.005 pound of VOC per pound of foam throughput.

#### D.3.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the casting painting operation shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

#### D.3.4 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the core sand handling operation shall not exceed 47.6 pounds per hour when operating at a process weight rate of 68.8 tons per hour.

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

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

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

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

### Compliance Determination Requirements

#### D.3.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

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- (a) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Conditions D.3.2 and D.3.4, the Permittee shall perform PM and PM10 testing on the core making operations exhausting through dust collector C08 using methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.
- (b) As long as the total phenolic urethane nobake catalyst and resin usage during any twelve (12) consecutive month period is less than 10,000 pounds, VOC testing for the core making operations referred to as P17 is not required. If phenolic urethane nobake catalyst and resin usage during any twelve (12) consecutive month period equals or exceeds 10,000 pounds, the Permittee shall perform VOC testing on the core making operations, referred to as P17, in order to demonstrate compliance with Conditions D.3.1(a) within 180 days of the last day of the month in which the twelve (12) month total usage equals or exceeds 10,000 pounds. This test shall be performed using methods as approved by the Commissioner. If after five (5) years from the most recent valid compliance demonstration phenolic urethane nobake catalyst and resin usage during any twelve (12) consecutive month period equals or exceeds 10,000 pounds the Permittee shall perform VOC testing on P17 within 180 days of the last day of the month in which the twelve (12) month total usage equals or exceeds 10,000 pounds. Testing shall be conducted in accordance with Section C - Performance Testing.
- (c) Within 180 days after issuance of Part 70 Significant Permit Modification No. 091-28463-00018, the Permittee shall perform VOC testing on the core making operations, referred to as P17, for furan nobake catalyst and binder, in order to demonstrate compliance with Conditions D.3.1(b). This test shall be performed using 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.

#### D.3.6 Particulate Control [326 IAC 2-7-6(6)]

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- (a) In order to comply with conditions D.3.2 and D.3.4, the dust collectors C08 and C07 for particulate control shall be in operation and control emissions from the core making operations and the woodworking equipment in the pattern repair shop at all times that the core making operations and the woodworking equipment in the pattern repair shop are in operation.

- (b) In the event that bag failure is observed in a multi-compartment dust collector, 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 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.3.7 Monitoring**

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- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters associated with the casting painting operation. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stack (S11) while the booth is in operation. If a condition exists which should result in a response step, 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.
- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is 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 Visible Emissions Notations**

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- (a) Visible emission notations of the dust collector C08 stack 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 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.3.9 Parametric Monitoring**

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The Permittee shall record the pressure drop across the dust collector C08 used in conjunction with the core making operations, at least once per day when the process is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 4.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation

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

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

#### D.3.10 Broken or Failed Bag Detection

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- (a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

#### D.3.11 Record Keeping Requirements

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- (a) To document compliance with Condition D.3.1, the Permittee shall maintain records in accordance with (1) through (7) below. Records maintained for (1) through (7) below shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.3.1.
  - (1) The amount and VOC content of phenolic urethane nobake resin and catalyst used.
  - (2) The throughput of sand to the core making operations for each month, where phenolic urethane nobake resin and catalyst are used.
  - (3) The amount and VOC content of furan nobake resin used.
  - (4) The throughput of sand to the core making operations for each month, where furan nobake resin is used.
  - (5) A log of the dates of use;
  - (6) The total VOC usage from phenolic urethane nobake resin and catalyst usage for each month and compliance period; and
  - (7) The total VOC usage from furan nobake resin usage for each month and compliance period.
- (b) To document compliance with Condition D.3.2(a)(3), the Permittee shall maintain records of the throughput of sand to the core making operations for each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (c) To document compliance with Condition D.3.2(b)(1) and (2), the Permittee shall maintain records of the monthly usage of VOC in the pattern and core box release agent coating operation (P20a) and the monthly usage of foam in the expendable pattern casting operation (P08). Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (d) To document compliance with Condition D.3.7, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.
- (e) To document compliance with Condition D.3.8, the Permittee shall maintain records of visible emission notations of the dust collector 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).
- (f) To document compliance with Condition D.3.9, the Permittee shall maintain records once per day of the pressure drop across the dust collector during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.3.12 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.3.1, D.3.2(a)(3), and D.3.2(b)(1) and (2) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.4

## FACILITY OPERATION CONDITIONS

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6: one (1) Safety Kleen maintenance parts washer with a remote solvent reservoir. [326 IAC 8-3-2]
- (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) 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]
  - (1) one (1) pneumatic sand transporter/silo, to be constructed in 2009, identified as ST-1, with a maximum capacity of 16 tons of sand per hour.

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

### Cold Cleaner Operations

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

##### D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

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

### Process Weight Activities

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

##### D.4.2 Particulate [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. This limit applies to the following insignificant activities:

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (b) 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.

## SECTION E.1

## FACILITY OPERATION CONDITIONS

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

- (a) one (1) electric induction furnace, referred to as F1, constructed in 1977, with a maximum capacity of 1.67 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (b) one (1) electric induction furnace, referred to as F2, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (c) one (1) electric induction furnace, referred to as F3, constructed in 1982, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (d) one (1) electric induction furnace, referred to as F4, constructed in 1985, with a maximum capacity of 2.92 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (e) one (1) electric induction furnace, referred to as F5, constructed in 1990, with a maximum capacity of 3.33 tons of iron per hour, with emissions controlled by the melt shop dust collector, referred to as C06, and exhausting to stack S06;
- (f) one (1) scrap and charge handling process, referred to as process P01, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, with emissions controlled by the melt shop dust collector, referred to as C06 and exhausting to stack S06;
- (g) one (1) natural gas-fired scrap preheater, referred to as emission unit P02, constructed in 1996, with a maximum heat input capacity of 17.8 million Btu per hour, with emissions uncontrolled and exhausting to stack S12;
- (h) one (1) inoculation process, referred to as process P04, constructed prior to 1972, with a maximum capacity of 13.76 tons of metal per hour, consisting of two methods of operation described as follows:
  - (1) Inoculation is periodically done in the furnace before discharge. Emissions are controlled by the melt shop dust collector, referred to as C06, exhausting to stack S06.
  - (2) Inoculation is generally done in molten metal transfer ladles, where emissions are currently uncontrolled and exhaust through Vent 24.
- (i) one (1) pouring and casting operation, referred to as process P06, and one (1) castings cooling operation, referred to as process P07, both constructed prior to 1972, with a maximum combined capacity of 13.76 tons of metal per hour and 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;

Note: Casting Service will re-direct inoculation emissions exhausting through Vent 24 to the melt shop dust collector, C06, within six (6) months after issuance of the Part 70 permit.

Under 40 CFR 63, Subpart EEEEE, the five (5) electric induction furnaces, the scrap preheater, and the fugitive emissions from the foundry operations, which include any emission source housed in a building or structure, are considered an existing affected source.

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]**

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

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- (a) Pursuant to 40 CFR 63.7760, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the five (5) electric induction furnaces, the scrap preheater, and the fugitive emissions from the foundry operations as specified in Table 1 of 40 CFR 63, Subpart EEEEE in accordance with schedule in 40 CFR 63 Subpart EEEEE.
  
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

**E1.2 National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Requirements [40 CFR Part 63, Subpart EEEEE] [326 IAC 20-92]**

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Pursuant to CFR Part 63, Subpart EEEEE, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries, which are incorporated by reference as 326 IAC 20-92 for the five (5) electric induction furnaces, the scrap preheater, and the fugitive emissions from the foundry operations as specified as follows.

- (1) 40 CFR 63.7680
- (2) 40 CFR 63.7681
- (3) 40 CFR 63.7682
- (4) 40 CFR 63.7683
- (5) 40 CFR 63.7690
- (6) 40 CFR 63.7700
- (7) 40 CFR 63.7710
- (8) 40 CFR 63.7720
- (9) 40 CFR 63.7730
- (10) 40 CFR 63.7731
- (11) 40 CFR 63.7732
- (12) 40 CFR 63.7733
- (13) 40 CFR 63.7734
- (14) 40 CFR 63.7735
- (15) 40 CFR 63.7736
- (16) 40 CFR 63.7740
- (17) 40 CFR 63.7741
- (18) 40 CFR 63.7742
- (19) 40 CFR 63.7743
- (20) 40 CFR 63.7744
- (21) 40 CFR 63.7745
- (22) 40 CFR 63.7746
- (23) 40 CFR 63.7747
- (24) 40 CFR 63.7750
- (25) 40 CFR 63.7751
- (26) 40 CFR 63.7752
- (27) 40 CFR 63.7753
- (28) 40 CFR 63.7760
- (29) 40 CFR 63.7761
- (30) 40 CFR 63.7765

(31) Appendix - Table 1 to Subpart EEEEE of Part 63

E.1.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries [40 CFR Part 63, Subpart EEEEE]

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Initial performance tests	40 CFR 63.7730	five (5) electric induction furnaces, scrap preheater, and fugitive emissions from foundry operations	180 days after April 23, 2007
Work Practice Standards	40 CFR 63.7700	five (5) electric induction furnaces, scrap preheater, and scrap storage areas	April 22, 2005
Operation and Maintenance	40 CFR 63.7710	iron and steel foundry, including air pollution control and monitoring equipment	April 23, 2007
Initial Compliance Demonstration for Work Practice Standards	40 CFR 63.7730	five (5) electric induction furnaces, scrap preheater, and scrap storage areas	30 days after April 22, 2005
Initial Compliance Demonstration for Operation and Maintenance Requirements	40 CFR 63.7730	iron and steel foundry, including air pollution control and monitoring equipment	30 days after April 23, 2007

## SECTION E.2

## FACILITY OPERATION CONDITIONS

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

- (l) expendable pattern casting, referred to as process P08, constructed in 1978, with a maximum capacity of 68.75 pounds of foam per hour, with emissions uncontrolled and exhausting inside the building;
- (s) casting painting operation, referred to as process P14, utilizing air atomization spray, constructed in 1975, using a maximum of 7.25 pounds of coating per hour and 2.0 pounds of thinner per hour, with a dry filter for overspray control, and emissions exhausting to stack S11;
- (t) mold making operations, referred to as process P16, constructed prior to 1972, using a phenolic nobake binder system with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting inside the building;
- (u) core making operations, referred to as process P17, constructed prior to 1972 and modified in 1985 and in 2005 with the addition of a High Bay Core Mixer, using phenolic nobake, phenolic urethane nobake, furan nobake, and SO<sub>2</sub> binder systems with a maximum capacity of 68.8 tons of sand per hour, with SO<sub>2</sub> emissions controlled by a packed tower scrubber, referred to as C10, which exhausts to stack S10, and with particulate emissions controlled by the core room dust collector, referred to as C08, exhausting to stack S08;

Note: The SO<sub>2</sub> scrubber is voluntarily installed and operated.

- (v) core and mold refractory wash coating operation, constructed prior to 1972, referred to as process P18, utilizing dip and flow coating, with emissions exhausting to stack S13;
- (w) one (1) pattern repair shop, referred to as process P20, constructed prior to 1972, including woodworking equipment for routine maintenance and repair of wood patterns, with emissions controlled by a dust collector, referred to as C07, and exhausting to stack S07.
- (x) pattern and core box release agent coating operation, referred to as process P20a, utilizing air atomization spray, constructed prior to 1972, with emissions exhausting inside the building.
- (y) one (1) pneumatic sand transport system for the mold making operations, constructed in 2005, with a maximum capacity of 68.8 tons of sand per hour, with emissions uncontrolled and exhausting into the building.

Under 40 CFR 63, Subpart M, the casting painting operation, referred to as process P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation are considered an existing affected source.

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

### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

#### E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.3901, the Permittee shall comply with the provisions of 40 CFR

Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the casting painting operation, referred to as process P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation as specified in Table 2 of 40 CFR 63, Subpart M MMM in accordance with schedule in 40 CFR 63 Subpart M MMM.

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

E.2.2 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products Requirements [40 CFR Part 63, Subpart M MMM] [326 IAC 20-80]

Pursuant to CFR Part 63, Subpart M MMM, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, which are incorporated by reference as 326 IAC 20-80 for the casting painting operation, referred to as process P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation as specified as follows.

The existing affected source associated with the surface coating of metal parts and products is subject to the following sections of 40 CFR Part 63, Subpart M MMM.

- 40 CFR 63.3880
- 40 CFR 63.3881
- 40 CFR 63.3882
- 40 CFR 63.3883
- 40 CFR 63.3890
- 40 CFR 63.3891
- 40 CFR 63.3892
- 40 CFR 63.3893
- 40 CFR 63.3900
- 40 CFR 63.3901
- 40 CFR 63.3910
- 40 CFR 63.3920
- 40 CFR 63.3930
- 40 CFR 63.3931
- 40 CFR 63.3940
- 40 CFR 63.3941
- 40 CFR 63.3942
- 40 CFR 63.3950
- 40 CFR 63.3951
- 40 CFR 63.3952
- 40 CFR 63.3960
- 40 CFR 63.3961
- 40 CFR 63.3963

40 CFR 63.3964  
 40 CFR 63.3965  
 40 CFR 63.3966  
 40 CFR 63.3967  
 40 CFR 63.3968  
 40 CFR 63.3980  
 40 CFR 63.3981

Applicable portions of Tables 1, 2, 3, and 4 of 40 CFR 63, Subpart M

E.2.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [40 CFR Part 63, Subpart M]

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Initial Notification	40 CFR 63.3910(b)	casting painting operation, P14, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation	January 2, 2005.
Notification of compliance status.	40 CFR 63.3910(c)	Same as above	No later than 30 calendar days following the end of the initial compliance period described in §63.3950.
First Semi-annual Compliance Report	40 CFR 63.3920(a)(1)	Same as above	July 31, 2008
Initial compliance demonstration for the initial compliance period according to the requirements of §63.3951.	40 CFR 63.3950	Same as above	Initial compliance period is from January 2, 2007 through January 31, 2008.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
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: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018

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

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

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

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

**Page 2 of 2**

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

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: electric induction furnaces, scrap and charge handling process, and inoculation process  
Parameter: PM and PM10 emissions  
Limit: The throughput of metal from the electric induction furnaces, from the scrap and charge handling process, and to the inoculation process, shall not exceed 60,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Metal Throughput This Month (tons)	Metal Throughput Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: pouring and casting operation, and casting cooling operation  
Parameter: PM and PM10 emissions  
Limit: The throughput of metal to the pouring and casting operation, and the casting cooling operation shall not exceed 60,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Metal Throughput This Month (tons)	Metal Throughput Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

### Part 70 Quarterly Report

Source Name: Casting Service  
 Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Part 70 Permit No.: T091-6141-00018  
 Facility: magnesium wire treatment process, P05a and P05b, and pneumatic room blast operations, P12a  
 Parameter: PM and PM10 emissions  
 Limit: The throughput of metal to the magnesium wire treatment processes, P05a and P05b, shall not exceed 50,000 tons per twelve (12) consecutive month period, and the throughput of metal from the pneumatic room blast operations, P12a, shall not exceed 4,500 tons per twelve (12) consecutive month period, for a combined metal throughput limit of 54,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

YEAR:

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + Column 2a	Column 1b + Column 2b	Column 1a + 1b + Column 2a + 2b
	P05a and P05b Metal Throughput This Month (tons)	P12a Metal Throughput This Month (tons)	P05a and P05b Metal Throughput Previous 11 Months (tons)	P12a Metal Throughput Previous 11 Months (tons)	12 Month Total P05a and P05b Metal Throughput (tons)	12 Month Total P12a Metal Throughput (tons)	12 Month Total Combined Metal Throughput (tons)
Month 1							
Month 2							
Month 3							

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: high and center bay shakeout operations, P09a and P09b  
Parameter: PM and PM10 emissions  
Limit: The combined throughput of metal from the high and center bay shakeout operations, P09a and P09b, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Combined Metal Throughput This Month (tons)	Combined Metal Throughput Previous 11 Months (tons)	12 Month Total Combined Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: small castings blasters and BCP shot blast, P12b  
Parameter: PM and PM10 emissions  
Limit: The total combined throughput of metal from the small castings blaster and BCP shot blast, P12b, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Combined Metal Throughput This Month (tons)	Combined Metal Throughput Previous 11 Months (tons)	12 Month Total Combined Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: the cleaning and grinding operation, P13  
Parameter: PM and PM10 emissions  
Limit: The total combined throughput of metal from the cleaning and grinding operation, P13, shall not exceed 45,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Combined Metal Throughput This Month (tons)	Combined Metal Throughput Previous 11 Months (tons)	12 Month Total Combined Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: mechanical reclamation system, P10  
Parameter: PM and PM10 emissions  
Limit: The total throughput of sand from the mechanical reclamation system, P10, shall not exceed 250,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

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

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: thermal sand reclamation system, P11  
Parameter: PM and PM10 emissions  
Limit: The total throughput of sand to the thermal sand reclamation system, P11, shall not exceed 52,560 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

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

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: high bay (P09a) shakeout operation  
Parameter: VOC emissions  
Limit: The throughput of metal from the high bay (P09a) shakeout operation shall not exceed 41,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Metal Throughput This Month (tons)	Metal Throughput Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: center bay (P09b) shakeout operation  
Parameter: VOC emissions  
Limit: The throughput of metal from the center bay (P09b) shakeout operation shall not exceed 41,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Metal Throughput This Month (tons)	Metal Throughput Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: pattern and core box release agent coating operation  
Parameter: VOC emissions  
Limit: The usage of VOC in the pattern and core box release agent coating operation (P20a) shall not exceed 86,500 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month;

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	VOC Usage This Month (tons)	VOC Usage Previous 11 Months (tons)	12 Month Total VOC Usage (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: expendable pattern casting operation  
Parameter: VOC emissions  
Limit: The throughput of foam in the expendable pattern casting operation (P08) shall not exceed 200,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month;

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Foam Usage This Month (tons)	Foam Usage Previous 11 Months (tons)	12 Month Total Foam Usage (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: core making operations, P17  
Parameter: VOC emissions  
Limit: When the phenolic urethane nobake binder is used in the core making operations, referred to as P17, the VOC emission from the resin and catalyst shall not exceed 6.39 pounds of VOC per ton of sand.

When the phenolic urethane nobake binder is used in the core making operations, the sand throughput to the core making operations, referred to as P17, shall not exceed 12,200 tons per 12 consecutive month period with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Usage This Month (tons)	Sand Usage Previous 11 Months (tons)	12 Month Total Sand Usage (tons)
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

### Part 70 Quarterly Report

Source Name: Casting Service  
 Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Part 70 Permit No.: T091-6141-00018  
 Facility: core making operations, P17  
 Parameter: VOC emissions  
 Limit: When the furan nobake binder is used in the core making operations, referred to as P17, the VOC emission from the resin shall not exceed 21.82 pounds of VOC per ton of sand.

When the furan nobake binder is used in the core making operations, the sand throughput to the core making operations, referred to as P17, shall not exceed 3,547 tons per 12 consecutive month period with compliance determined at the end of each month.

YEAR:

	Column 1	Column 2	Column 1 + Column 2
Month	Sand Usage This Month (tons)	Sand Usage Previous 11 Months (tons)	12 Month Total Sand Usage (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: Casting Service  
Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
Part 70 Permit No.: T091-6141-00018  
Facility: core making operations, P17  
Parameter: PM and PM10 emissions  
Limit: The throughput of sand to the core making operations, P17, shall not exceed 70,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:

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

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

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

Source Name: Casting Service  
 Source Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Mailing Address: 300 Philadelphia Street, LaPorte, Indiana 46350  
 Part 70 Permit No.: T091-6141-00018

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

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