INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
*We make Indiana a cleaner, healthier place to live.*

*Mitchell E. Daniels, Jr.*
*Governor*

*Thomas W. Easterly*
*Commissioner*

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

TO: Interested Parties / Applicant

DATE: September 18, 2006

RE: General Motors Corporation / 093-23139-00007

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

## Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 03/23/06

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Mr. Jeffrey S. Hummel
General Motors Corporation - GMPTG-Bedford
105 GM Drive
Bedford, Indiana 47421

September 18, 2006

Re: 093-23139-00007
First Significant Source Modification to:
Part 70 Operating Permit No. T093-5652-00007

Dear Mr. Hummel:

General Motors Corporation - GMPTG-Bedford was issued a Part 70 Operating Permit No. T093-5652-00007 on December 19, 2003 for a stationary aluminum die casting facility and aluminum foundry. An application to modify the source was received on May 26, 2006. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

(p) One (1) natural gas-fired dry hearth furnace, identified as DC No. 9, constructed in 2006, with a maximum melt rate of 22.5 tons of aluminum per hour, a maximum inorganic flux usage of 7.0 pounds per ton of metal, and a maximum heat input capacity of 90 million Btu per hour, and exhausting to stacks 9-1, 9-2, and 9-3.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

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

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

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

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

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

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

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Yu-Lien Chu, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 386-1024 to speak directly to Ms. Chu. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original signed by

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/YC

cc: File – Lawrence County
U.S. EPA, Region V
Lawrence County Health Department
Air Compliance Section Inspector – Jim Thorpe
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner

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# PART 70 OPERATING PERMIT
# OFFICE OF AIR QUALITY

## General Motors Corporation - GMPTG - Bedford
## 105 GM Drive
## Bedford, Indiana 47421

(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.

| Operation Permit No.: T093-5652-00007 | |
|---|---|
| Issued by:<br>Janet G. McCabe, Assistant Commissioner<br>Office of Air Quality | Issuance Date: December 19, 2003<br><br>Expiration Date: December 19, 2008 |

First Minor Permit Modification No.: 093-19635-00007, issued January 27, 2005
First Administrative Amendment No.: No.: 093-20540-00007, issued March 30, 2006

| First Significant Source Modification No.:<br>093-23139-00007 | |
|---|---|
| Original signed by:<br><br>Nisha Sizemore, Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: September 18, 2006 |

## SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary aluminum die casting facility and aluminum foundry.

| | |
|---|---|
| Responsible Official: | Plant Manager |
| Source Address: | 105 GM Drive, Bedford, Indiana 47421 |
| Mailing Address: | 105 GM Drive, Bedford, Indiana 47421 |
| General Source Phone Number: | (812) 279-7271 |
| SIC Code: | 3363, 3365 |
| County Location: | Lawrence |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Permit Program<br>Minor Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>Not in 1 of 28 Source Categories |

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

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

**Chip Processing**

(a) One (1) natural gas-fired aluminum chip dryer constructed in 1974, referred to as CHIP-2, with a maximum capacity of 7.60 tons of scrap aluminum chips per hour and a maximum heat input capacity of 6.83 million Btu per hour, with emissions controlled by a baghouse and an afterburner AB-1, and exhausting to stack 10.

**Aluminum Crushing**

(b) One (1) scrap metal crusher device, referred to as CRUSH, constructed in 1974 with a maximum crushing capacity of 37.5 tons of aluminum scrap per hour, with emissions controlled by a cartridge collector, and exhausting to stacks CRUSH-1.

**Die Cast Melting**

(c) One (1) natural gas-fired reverberatory holding furnace, referred to as RF-2 and as DC MELT B - #2, constructed in 1999, with a maximum capacity of 6.25 tons of metal per hour and 0.1 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 25 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 2-1 and 2-2.

(d) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-3 and as DC MELT A - #3, constructed in 1974, with a maximum capacity of 3.4 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 20.4 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 67 and 68.

(e) One (1) natural gas-fired reverberatory furnace, referred to as RF-11 and as DC MELT A - #11, constructed in 1974, with a maximum capacity of 5.1 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 20.4 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 55, 56, and RF-11-HS.

(f) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-12 and as DC MELT A - #12, constructed in 1996, with a maximum capacity of 10.0 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 40.0 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 57, 58, and 17.

(g) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-16 and as DC MELT A - #16, constructed in 1975, with a maximum capacity of 4.87 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 29.2 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 52, 53, and 16.

(h) One (1) natural gas-fired dry hearth furnace, identified as Number 10, constructed in 2002, with a maximum heat input capacity of 50 million Btu per hour, and a maximum melt rate of 12.5 tons of aluminum per hour, with emissions uncontrolled, and exhausting to stacks DH-10-1, DH-10-2, and DH-10-3.

**Piston Melting**

(i) One (1) natural gas-fired dry hearth furnace, identified as Number 13, constructed in 2002, with a maximum heat input capacity of 10 million Btu per hour, and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-13-1.

(j) One (1) natural gas-fired dry hearth furnace, identified as Number 14, constructed in 2003, with a maximum heat input capacity of 10 million Btu per hour and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-14-1.

(k) One (1) natural gas-fired reverberatory furnace, identified as Number 18A, constructed in 2003, with a maximum heat input capacity of 7 million Btu per hour, and a maximum capacity of 2.0 tons of aluminum per hour, nine (9) pounds of inorganic flux per ton of metal, and two (2) pounds of organic flux per ton of metal, with emissions uncontrolled, and exhausting to stacks 261 and 264.

(l) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-5 and as PIST MELT - #5, constructed in 1977, with a maximum capacity of 4.17 tons of metal per hour, 9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 25 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 283 and 284.

(m) One natural gas-fired dry hearth melter, referred to DH No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 25 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-1, and 6-2.

(n) One natural gas-fired reverberatory holding furnace, referred to RF No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 8 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-3, and 6-4.

(o) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-19 and as PIST MELT - #19, constructed in 1978, with a maximum capacity of 4.67 tons of metal per hour,

9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 28 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 287 and 288.

(p) One (1) natural gas-fired dry hearth furnace, identified as DC No. 9, constructed in 2006, with a maximum melt rate of 22.5 tons of aluminum per hour, a maximum inorganic flux usage of 7.0 pounds per ton of metal, and a maximum heat input capacity of 90 million British thermal units per hour, and exhausting to stacks 9-1, 9-2, and 9-3.

**Natural Gas-Fired Boiler**

(q) One (1) natural gas-fired boiler, referred to as the POWER - tool room boiler, constructed in 1966, with a maximum heat input capacity of 10.05 million Btu per hour, with emissions uncontrolled, and exhausting to stack 30 which has a height of 50 feet.

## A.3 Specifically Regulated Insignificant Activities

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 [326 IAC 8-3-2, 326 IAC 8-3-5].

(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 [326 IAC 6-3-2].

(d) Emission units with PM and PM10 emissions less than five (5) tons per year, $SO_2$, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year [326 IAC 6-3-2].

(1) Chip and crushed material storage piles;

(2) Sniff units;

(3) EDM carbon etchers, tool sharpening, and abrasive cleaning;

(4) Small sand blasters;

(5) Refractory powder mixing station;

(6) Clipper brick saw;

(7) Feed hopper and conveyor for induction furnaces;

(8) Maintenance paint spray and mold ladle coating booths;

(9) Die cast machines and associated small holding furnaces; and

(10) Permanent mold machines and associated small holding furnaces.

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

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

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

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

## SECTION B GENERAL CONDITIONS

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

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

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit 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.

B.3 Enforceability [326 IAC 2-7-7]

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

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the Aresponsible 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 or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]

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

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

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

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

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

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source=s compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted 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
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 Aresponsible official@ as defined by 326 IAC 2-7-1(34).

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

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by the Aresponsible official@ as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(c) 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 PMP does not require the certification by the Aresponsible official@ as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

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

Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
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 Aresponsible 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) 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]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or
(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this 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
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 Aresponsible 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 Aresponsible 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 2-7-4]

(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 Aresponsible 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
Indianapolis, Indiana 46204-2251

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

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

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

(2) If IDEM, OAQ, upon receiving a timely and complete 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.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

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
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the Aresponsible 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)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

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

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

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

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

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

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

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

(3) The changes do not result in emissions which exceed the emissions allowable under 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
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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes 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 Aresponsible official@ as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B.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.

**SECTION C SOURCE OPERATION CONDITIONS**

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

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

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

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
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.9 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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 source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within thirty (30) 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 thirty (30) days, the Permittee may extend the compliance schedule related to the equipment for an additional thirty (30) days provided the Permittee notifies:

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

in writing, prior to the end of the initial thirty (30) 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 Aresponsible 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.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( ∀2%) of full scale reading.

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

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

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

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

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

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

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

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

The ERP does require the certification by the Aresponsible 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.15 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 source must comply with the applicable requirements of 40 CFR 68.

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63 , such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from, or a violation of, this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall be considered deviation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within Anormal@ parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 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 and 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 Aresponsible 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.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) 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
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the Aresponsible 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.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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

(a) The source 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 Aresponsible 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
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 Aresponsible 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.

**Stratospheric Ozone Protection**

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

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

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

**SECTION D.1 FACILITY OPERATION CONDITIONS**

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

**Chip Processing**

(a) One (1) natural gas-fired aluminum chip dryer constructed in 1974, referred to as CHIP-2, with a maximum capacity of 7.60 tons of scrap aluminum chips per hour and a maximum heat input capacity of 6.83 million Btu per hour, with emissions controlled by a baghouse and an afterburner AB-1, and exhausting to stack 10.

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

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

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and SSM 093-13639-00007 issued June 16, 2002, the particulate from the aluminum chip dryer (CHIP-2) shall not exceed 15.96 pounds per hour when operating at a process weight rate of 7.60 tons of aluminum per hour. The pounds per hour limitation was calculated with the following equation:

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

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

D.1.2 PSD Minor Limit [326 IAC 2-2]

Pursuant to SSM093-13639-00007, issued June 16, 2002, the Permittee is subject to the following limitations:

(a) The PM emissions from the chip dryer (CHIP-2) shall not exceed 2.28 pounds per ton of metal.

(b) The PM10 emissions from the chip dryer (CHIP-2) shall not exceed 2.28 pounds per ton of aluminum chips.

(c) The VOC emissions from the chip dryer (CHIP-2) shall not exceed 2.0 pounds per ton of aluminum chips.

These limits are necessary in order that the source maintain minor PSD status, therefore, the requirements of 326 IAC 2-2 (PSD) will not apply to units constructed after 1977.

D.1.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the aluminum chip dryer (CHIP-2) except when otherwise specified in 40 CFR Part 63, Subpart RRR. These requirements became applicable to the aluminum chip dryer (CHIP-2) on March 24, 2003. This facility is an area source under Clean Air Act Section 112. Therefore, only the area source requirements of Subpart RRR apply to this facility.

D.1.4 Secondary Aluminum Smelting NESHAP Requirements [40 CFR Part 63, Subpart RRR]

(a) Pursuant to 40 CFR 63.1505(c)(2), on or after the date the initial performance test is conducted or required to be conducted, whichever date is earlier, the owner or operator of the thermal chip dryer (CHIP-2) must not discharge or cause to be discharged to the

atmosphere emissions in excess of 2.50 micrograms total polychlorinated dibenzofurans (D/F) international Toxicity Equivalent (TEQ) per megagram ($3.5 \times 10^{-5}$ gr per ton) of dried chips.

(b) Pursuant to 40 CFR 63.1506(f), the owner or operator of a thermal chip dryer (CHIP-2) with emissions controlled by an afterburner must:

(1) Maintain the 3-hour block average operating temperature of each afterburner at or above the average temperature established during the performance test.

(2) Operate the afterburner in accordance with the OM&M plan.

(3) Operate each thermal chip dryer using only unpainted aluminum chips as the feedstock.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the chip dryer (CHIP-2), the baghouse and the afterburner.

**Compliance Determination Requirements**

D.1.6 Control Device Operation

(a) Pursuant to SSM 093-13639-00007, issued June 16, 2002, and in order to comply with Conditions D.1.2 and D.1.4, the afterburner shall be in operation at all times when the thermal chip dryer (CHIP-2) is in operation.

(b) Pursuant to SSM 093-13639-00007, issued June 16, 2002, and in order to comply with Conditions D.1.1 and D.1.2, the baghouse shall be in operation at all times when the thermal chip dryer (CHIP-2) is in operation.

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

D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) Pursuant to SSM093-13639-00007, issued June 16, 2002, by July 29, 2003, the Permittee shall perform PM, PM10, and VOC testing using methods as approved by the Commissioner, in order to demonstrate compliance with Conditions D.1.1 and D.1.2. PM10 includes filterable and condensible PM10. These tests shall be repeated at least five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

(b) Pursuant to 40 CFR 63, Subpart RRR, the source shall conduct a performance test to demonstrate compliance with the requirements of 40 CFR 63, Subpart RRR as listed in Condition D.1.4(a). Testing shall be conducted in accordance with Section C - Performance Testing, and in accordance with the following requirements.

(1) Prior to conducting the performance test required by 40 CFR 63, Subpart RRR, the Permittee shall prepare and submit a site-specific test plan in compliance with 40 CFR 63.7(c). Following approval of the site-specific test plan, the Permittee shall demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected unit and report the results in the notification of compliance report. The Permittee shall conduct performance tests in accordance with the requirements in 40 CFR 63, Subpart A and 40 CFR 63, Subpart RRR. The Permittee shall use Method 23 in

Appendix A to 40 CFR 60 or an alternative method approved by the Administrator to measure the concentration of D/F.

The Permittee shall notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test shall be provided at least 30 days before the observations are scheduled to take place [40 CFR 63.1511(a)].

(2) The Permittee shall establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by 40 CFR 63.1510 that ensures compliance with the applicable emission limit for D/F. The Permittee may use existing data in addition to the results of the performance test to establish operating parameter values for compliance monitoring provided the requirements of 40 CFR 63.1511(g) are met [40 CFR 63.1511(g)].

D.1.8 Secondary Aluminum Smelting NESHAP Monitoring Requirements [40 CFR Part 63, Subpart RRR]

(a) The Permittee shall prepare a written Operation, Maintenance, and Monitoring (OM&M) Plan and shall submit the plan to the applicable permitting authority for review and approval. Any subsequent changes to the plan shall be submitted to the applicable permitting authority for review and approval. Pending approval of the initial or amended plan, the Permittee shall comply with the conditions of the submitted plan. The plan shall include the following information [40 CFR 63.1510(b)]:

(1) The process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each affected unit and control device.

(2) A monitoring schedule for each affected unit.

(3) Procedures for the proper operation and maintenance of each affected unit and control device used to meet the applicable emission limit in 40 CFR 63.1505.

(4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:

(A) Calibration and certification of accuracy of each monitoring device, at least once every six (6) months, according to the manufacturer=s instructions; and

(B) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in 40 CFR 63, Subpart A.

(5) Procedures for monitoring process and control parameters, including procedures for annual inspections of afterburners, and if applicable, the procedures to be used for determining feed (or throughput) weight if a measurement device is not used.

(6) Corrective actions to be taken when process operating parameters or add-on control device parameters deviate from the value or range established in (A) above, including:

(A) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and

(B) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time and date corrective action was completed.

(7) A maintenance schedule for each affected unit and control device that is consistent with the manufacturer=s instructions and recommendations for routine and long-term maintenance.

The completion of the initial performance tests for the secondary aluminum processing units shall be considered to be the date of approval of the Operation, Maintenance and Monitoring (OM&M) Plan by IDEM, OAQ [40 CFR 63.1506(a)(2)].

(b) The Permittee must monitor the afterburner as follows:

(1) The Permittee must install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner consistent with the requirements for continuous monitoring systems in 40 CFR 63, Subpart A.

(2) The temperature monitoring device must:

(A) Be installed at the exit of each afterburner=s combustion zone.

(B) Record the temperature in 15-minute block averages and determine and record the average temperature for each 3-hour block period.

(C) Have a recorder response range including zero and 1.5 times the average temperature established according to the requirements in 40 CFR 63.1512(m).

(D) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.

(3) Conduct an inspection of each afterburner at least once a year and record the results. At a minimum, an inspection must include:

(A) Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor;

(B) Inspection for proper adjustment of combustion air;

(C) Inspection of internal structures (e.g., baffles) to ensure structural integrity;

(D) Inspection of dampers, fans, and blowers for proper operation;

(E) Inspection for proper sealing;

(F) Inspection of motors for proper operation;

(G) Inspection of combustion chamber refractory lining and clean and replace lining as necessary;

(H) Inspection of afterburner shell for corrosion and/or hot spots;

(I) Documentation verifying that, for the burn cycle following the inspection, the afterburner is operating properly and all necessary adjustments have been made;

(J) Verification that the equipment is maintained in good operating condition.

(K) Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM&M plan.

(c) The Permittee shall develop a written plan that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the emission limit. The Permittee shall keep records of each event as required by 40 CFR 63.10(b) and record and report if an action taken during startup, shutdown, or malfunction is not consistent with the procedures in the startup, shutdown, and malfunction plan. The plan shall include [40 CFR 63.1516(a)].

(1) The procedures to determine and record the cause of a malfunction and the time the malfunction began and ended; and

(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including the actions taken to correct the malfunction or minimize emissions.

Pursuant to 326 IAC 20-70, the Permittee shall implement the plan described in Condition D.1.8(c) until the amendment to 40 CFR 63, Subpart RRR, promulgated on April 20, 2006 (71 Fed. Reg. 20,446 (April 20, 2006)), has been incorporated into 326 IAC 20-70. This requirement is not federally enforceable.

(d) Pursuant to 40 CFR 63.1510(e), the Permittee shall install, calibrate, operate, and maintain a device to measure and record the total weight of dry chips processed through the natural gas-fired aluminum chip dryer for each operating cycle or time period used in the performance test consistent with US EPA's April 15, 2003 approval of alternative monitoring for the thermal chip dryer.

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

D.1.9 Visible Emissions Notations

(a) Visible emission notations of the chip dryer (CHIP-2) stack exhaust shall be performed once per day during normal daylight operations when the chip dryer operates for more than one daylight hour. 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.1.10 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the thermal chip dryer baghouse at least once per day when the thermal chip dryer is in operation. When for any one 15-minute block average reading, the pressure drop across the baghouse is outside the normal range of 0.5 to 7.0 inches of water, the Permittee shall take reasonable response steps in accordance with Section C B Compliance Response Plan B Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) The instruments used for determining the pressure shall comply with Section C B Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated during April and October of each year.

D.1.11 Broken or Failed Bag Detection

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

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

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

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

D.1.12 Record Keeping Requirements [40 CFR 63, Subpart RRR]

(a) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations of the chip dryer (CHIP-2) stack exhaust.

(b) In order to document compliance with condition D.1.10, the Permittee shall maintain records of the pressure drop once per day during normal operation.

(c) Pursuant to 40 CFR 63, Subpart RRR, in addition to the general records required by 40 CFR 63.10(b), the Permittee shall maintain:

(1) The number of total operating hours for the affected source or emission unit during each 6 month reporting period, records of each alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action(s) taken.

(2) Records of any approved alternative monitoring or test procedure.

(3) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:

(A) Startup, shutdown, and malfunction plan; and

(B) Operation, Maintenance, and Monitoring (OM&M) Plan.

The record keeping requirements pursuant to the NESHAP 40 CFR 63, Subpart RRR, become applicable to the aluminum chip dryer on March 24, 2003.

(d) The Permittee shall maintain files of all information, including reports and notifications, required by 40 CFR 63.10 and 40 CFR 63.1517. The Permittee shall retain each record for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent two (2) years of records shall be retained at the source. The remaining three (3) years of records may be retained off-site. The Permittee may retain records on microfilm, computer disks, magnetic tape or microfiche.

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

D.1.13 Reporting Requirements [40 CFR 63, Subpart RRR]

(a) Pursuant to 40 CFR 63.1515(b), the Permittee shall submit a notification of compliance status reports no more than 60 days after March 24, 2003 for the thermal chip dryer (CHIP-2). The notification must be signed by the responsible official who must certify its accuracy. The report shall include:

(1) All information required in 40 CFR 63.9(h). The Permittee shall provide a complete performance test report for each affected unit, including data, associated measurements, and calculations.

(2) The approved site-specific test plan and performance evaluation test results for each continuous monitoring system.

(3) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., alkaline agent injection rate, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.

(4) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for the capture/collection system required in 40 CFR 63.1506(c).

(5) If applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems required in 40 CFR 63.1510(f).

(6) Approved Operation, Maintenance, and Monitoring (OM&M) Plan.

(7) Startup, shutdown, and malfunction plan.

(b) On and after March 24, 2003, the Permittee shall submit a semi-annual report within 60 days after the end of each six (6) month period detailing all deviations from the Operation, Maintenance, and Monitoring Plan. When no deviations have occurred, the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. A report shall be submitted if any following conditions occur [40 CFR 63.1516(b)]:

(1) An excursion of a compliant process or operating parameter value or range.

(2) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan.

(3) Each report must include a certification that "only unpainted aluminum chips were used as feedstock in any thermal chip dryer during this reporting period".

(c) The Permittee shall submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.

**SECTION D.2 FACILITY OPERATION CONDITIONS**

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

**Aluminum Crushing**

(b) One (1) scrap metal crusher device, referred to as CRUSH, constructed in 1974 with a maximum crushing capacity of 37.5 tons of aluminum scrap per hour, with emissions controlled by a cartridge collector, and exhausting to stacks CRUSH-1.

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), and SSM 093-13639-00007, issued June 16, 2002, the particulate from the scrap metal crusher (CRUSH) shall not exceed 41.94 pounds per hour when operating at a process weight rate of 37.5 tons of aluminum per hour. The pounds per hour limitation was calculated with the following equation:

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

$E = 55 P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

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

Pursuant to SSM093-13639-00007, issued June 16, 2002, the Permittee is subject to the following limitations:

(a) The PM emissions from the scrap metal crusher (CRUSH) shall not exceed 0.235 pounds per hour.

(b) The PM10 emissions from the scrap metal crusher (CRUSH) shall not exceed 0.235 pounds per hour.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) will not apply to units constructed after 1977.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the dust collector.

**Compliance Determination Requirements**

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Pursuant to SSM093-13639-00007, issued June 16, 2002, by July 29, 2003, the Permittee shall perform PM and PM10 testing using methods as approved by the Commissioner, in order to demonstrate compliance with Conditions D.2.1 and D.2.2. PM10 includes filterable and condensible PM10. This test shall be repeated at least five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.5 Particulate

(a) Pursuant to SSM 093-13639-00007, issued June 16, 2002, and in order to comply with Conditions D.2.1 and D.2.2, the dust collector shall be in operation at all times when the scrap metal crusher (CRUSH) is in operation.

(b) In the event that cartridge 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.2.6 Visible Emissions Notations

(a) Visible emission notations of the scrap metal crusher (CRUSH) stack exhaust shall be performed once per day during normal daylight operations when the scrap metal crusher operates more than one daylight hour. 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.2.7 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collector controlling the scrap metal crusher (CRUSH) at least once per day when the scrap metal crusher (CRUSH) is in operation more than one daylight hour. In lieu of manually recording the pressure drop, the Permittee may install and operate a continuous recording device. When for any one reading, or in the case of a continuous recording device for any 15-minute average, the pressure drop across the baghouse is outside the normal range of 1.0 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instruments used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated in April and October of each year.

D.2.8 Broken or Failed Cartridge Filter Detection

(a) For a single compartment cartridge filter 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 cartridge filter 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 Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

D.2.9 Record Keeping Requirements

(a) In order to document compliance with Condition D.2.6, the Permittee shall maintain records of visible emission notations of the dust collector stack exhaust once per day when the scrap metal crusher operates more than one daylight hour.

(b) In order to document compliance with condition D.2.7, the Permittee shall maintain records of pressure drop once per day during normal operation when the scrap metal crusher operates more than one daylight hour.

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

**SECTION D.3 FACILITY OPERATION CONDITIONS**

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

**Die Cast Melting**

(c) One (1) natural gas-fired reverberatory holding furnace, referred to as RF-2 and as DC MELT B - #2, constructed in 1999, with a maximum capacity of 6.25 tons of metal per hour and 0.1 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 25 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 2-1 and 2-2.

(d) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-3 and as DC MELT A - #3, constructed in 1974, with a maximum capacity of 3.4 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 20.4 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 67 and 68.

(e) One (1) natural gas-fired reverberatory furnace, referred to as RF-11 and as DC MELT A - #11, constructed in 1974, with a maximum capacity of 5.1 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 20.4 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 55, 56, and RF-11-HS.

(f) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-12 and as DC MELT A - #12, constructed in 1996, with a maximum capacity of 10.0 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 40.0 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 57, 58, and 17.

(g) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-16 and as DC MELT A - #16, constructed in 1975, with a maximum capacity of 4.87 tons of metal per hour and 7 pounds of inorganic flux per ton of metal, and a maximum heat input capacity of 29.2 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 52, 53, and 16.

(h) One (1) natural gas-fired dry hearth furnace, identified as Number 10, constructed in 2002, with a maximum heat input capacity of 50 million Btu per hour, and a maximum melt rate of 12.5 tons of aluminum per hour, with emissions uncontrolled, and exhausting to stacks DH-10-1, DH-10-2, and DH-10-3.

**Piston Melting**

(i) One (1) natural gas-fired dry hearth furnace, identified as Number 13, constructed in 2002, with a maximum heat input capacity of 10 million Btu per hour, and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-13-1.

(j) One (1) natural gas-fired dry hearth furnace, identified as Number 14, constructed in 2003, with a maximum heat input capacity of 10 million Btu per hour and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-14-1.

(k) One (1) natural gas-fired reverberatory furnace, identified as Number 18A, constructed in 2003, with a maximum heat input capacity of 7 million Btu per hour, and a maximum capacity of 2.0 tons of aluminum per hour, nine (9) pounds of inorganic flux per ton of metal, and two (2) pounds of organic flux per ton of metal, with emissions uncontrolled, and exhausting to stacks 261 and 264.

(l) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-5 and as PIST MELT - #5, constructed in 1977, with a maximum capacity of 4.17 tons of metal per hour, 9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 25 million Btu per hour, with emissions uncontrolled, and exhausting to stacks

283 and 284.

(m) One natural gas-fired dry hearth melter, referred to DH No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 25 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-1, and 6-2.

(n) One natural gas-fired reverberatory holding furnace, referred to RF No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 8 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-3, and 6-4.

(o) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-19 and as PIST MELT - #19, constructed in 1978, with a maximum capacity of 4.67 tons of metal per hour, 9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 28 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 287 and 288.

(p) One (1) natural gas-fired dry hearth furnace, identified as DC No. 9, constructed in 2006, with a maximum melt rate of 22.5 tons of aluminum per hour, a maximum inorganic flux usage of 7.0 pounds per ton of metal, and a maximum heat input capacity of 90 million British thermal units per hour, and exhausting to stacks 9-1, 9-2, and 9-3.

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following units shall be limited as follows when operating at the listed process weight rate:

| Unit | Process Weight Rate (ton/hr) | PM Emission Limit (lb/hr) |
|---|---|---|
| Reverberatory Furnace RF-2 (DC MELT B - #2) | 6.25 | 14 |
| Reverberatory Furnace RF-3 (DC MELT A - #3) | 3.4 | 9.31 |
| Reverberatory Furnace RF-11 (DC MELT A - #11) | 5.1 | 12.21 |
| Reverberatory Furnace RF-12 (DC MELT A - #12) | 10.0 | 19.18 |
| Reverberatory Furnace RF-16 (DC MELT A - #16) | 4.87 | 11.84 |
| Dry Hearth Furnace Number 10 | 12.5 | 22.27 |
| Dry Hearth Furnace Number 13 | 2.08 | 6.70 |
| Dry Hearth Furnace Number 14 | 2.08 | 6.70 |
| Reverberatory Furnace Number 18A | 2.0 | 6.52 |
| Reverberatory Furnace RF-5 (PIST MELT - #5) | 4.17 | 10.67 |
| Dry Hearth Melter (DH No. 6) | 2.50 | 7.58 |
| Reverberatory Holding Furnace (RF No. 6) | 2.50 | 7.58 |
| Reverberatory Furnace RF-19 (PIST MELT - #19) | 4.67 | 11.51 |

| Unit | Process Weight Rate (ton/hr) | PM Emission Limit (lb/hr) |
|---|---|---|
| Dry Hearth Furnace DC No. 9 | 22.5 | 33.0 |

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

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

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

D.3.2 PSD Minor Limit [326 IAC 2-2]

Pursuant to SSM 093-13639-00007, issued June 16, 2002, and SSM 093-23139-00007, the source shall comply with conditions (a), (b), (c), (d), and (k) in order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the dry hearth furnaces #9, 10, 13, and 14 and reverberatory furnace #18A, and in order for the source to maintain minor PSD status. Pursuant to SSM 093-13639-00007, issued June 16, 2002, revised by this Part 70 permit, the source shall comply with conditions (a), (e) through (j), in order to limit the potential to emit of any single HAP to less than 10 tons per year and any combination of HAPs to less than 25 tons per year, such that the source will be a minor source of HAPs.

(a) The total amount of metal melted by all the furnaces combined shall not exceed 175,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The PM emissions from each of the furnaces, other than furnace DC No. 9, shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

(c) The PM10 emissions from each of the furnaces, other than furnace DC No. 9, shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

(d) The PM/PM10 emissions from furnace DC No. 9 shall not exceed 1.28 pounds per ton of metal melted averaged over the melt cycle.

(e) The amount of organic flux used in all of the furnaces combined shall not exceed 34,909 pounds per twelve (12) consecutive month period with compliance determined at the end of each month, where 100 pounds of inorganic flux is equivalent to 1 pound of organic flux.

(f) The HCl emissions from the use of organic flux shall not exceed 0.55 pounds per pound of organic flux used.

(g) The HF emissions from the use of organic flux shall not exceed 0.06 pounds per pound of organic flux used.

(h) The hexachloroethane emissions from the use of organic flux shall not exceed 0.004 pounds per pound of organic flux used.

(i) The HCl emissions from the use of inorganic flux shall not exceed 0.005 pounds per pound of inorganic flux used.

(j) The HF emissions from the use of inorganic flux shall not exceed 0.03 pounds per pound of inorganic flux used.

(k) The Permittee shall not melt any post-consumer scrap materials in any of the furnaces at this source. Only General Motors returns and/or returns from non-General Motors

sources where the composition of the purchased returns have at least the same quality as the General Motors returns shall be melted in any of the furnaces. The non-General Motors returns shall be specified contractually, and the quality of the returns shall be controlled contractually. Therefore, this source is not considered a secondary metal production facility and is therefore, not one of the 28 listed source categories.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) will not apply to units constructed after 1977. These conditions are also sufficient to limit emissions of HAPs to less than 10 tons per year for any single HAP and less than 25 tons per year for all HAPs combined.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

(a) Pursuant to SSM 093-13639-00007, issued June 16, 2002, within 60 days after achieving maximum capacity, but no later than 180 days after startup, the Permittee shall perform PM and PM10 testing on the furnace Number 10 using methods as approved by the Commissioner, in order to demonstrate compliance with Conditions D.3.1 and D.3.2. PM10 includes filterable and condensible PM10. This test shall be repeated at least five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

(b) Pursuant to SSM093-13639-00007, issued June 16, 2002, by July 29, 2003, the Permittee shall perform PM and PM10 testing on the reverberatory furnaces RF-2 (DC MELT B - #2) and Complex 6 (RF-6) using methods as approved by the Commissioner, in order to demonstrate compliance with Conditions D.3.1 and D.3.2. PM10 includes filterable and condensible PM10. This test shall be repeated at least five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

(c) In order to demonstrate compliance with Condition D.3.2 (d), within 60 days after achieving the maximum production rate but not later than 180 days after initial startup, the Permittee shall perform PM and PM10 testing for the emissions from dry hearth furnace DC No. 9, utilizing methods as approved by the Commissioner. PM10 includes filterable PM10 and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.3.5 Record Keeping Requirements

(a) To document compliance with Condition D.3.2(a), the Permittee shall keep records of the amount of metal melted in all of the furnaces combined, each month of operation.

(b) To document compliance with Condition D.3.2(e), the Permittee shall keep records of the amount of organic flux used in all of the furnaces combined, each month of operation.

(c) To document compliance with Condition D.3.2(e), the Permittee shall keep records of the amount of inorganic flux used in all of the furnaces combined, each month of operation.

(d) To document compliance with Condition D.3.2(k), the Permittee shall keep records of the type of scrap used in the furnaces. The records shall be sufficient to demonstrate compliance with the requirements of D.3.2(k).

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

D.3.6 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.3.2(a) and D.3.2(e) shall be submitted to the address in Section C - General Reporting Requirements, 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 Aresponsible official@ as defined by 326 IAC 2-7-1(34).

**SECTION D.4 FACILITY OPERATION CONDITIONS**

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

**Natural Gas-Fired Boiler**

(q) One (1) natural gas-fired boiler, referred to as the POWER - tool room boiler, constructed in 1966, with a maximum heat input capacity of 10.05 million Btu per hour, with emissions uncontrolled, and exhausting to stack 30 which has a height of 50 feet.

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

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

D.4.1 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the 10.05 MMBtu per hour heat input boiler shall be limited to 0.8 pound per million Btu of heat input.

**Compliance Determination Requirements**

D.4.2 Natural Gas

In order to demonstrate compliance with D.4.1, the source shall burn only natural gas.

**SECTION D.5 FACILITY OPERATION CONDITIONS**

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

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2, 326 IAC 8-3-5].

(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 [326 IAC 6-3-2].

(d) Emission units with PM and PM10 emissions less than five (5) tons per year, $SO_2$, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year [326 IAC 6-3-2]:

(1) Chip and crushed material storage piles;

(2) Sniff units;

(3) EDM carbon etchers, tool sharpening, and abrasive cleaning;

(4) Small sand blasters;

(5) Refractory powder mixing station;

(6) Clipper brick saw;

(7) Feed hopper and conveyor for induction furnaces;

(8) Maintenance paint spray and mold ladle coating booths;

(9) Die cast machines and associated small holding furnaces; and

(10) Permanent mold machines and associated small holding furnaces.

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

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

D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the Permittee shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius ($48.9^{O}C$) (one hundred twenty degrees Fahrenheit ($120^{O}F$)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.5.3 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 each of the particulate emitting facilities listed in this section shall not exceed the allowable particulate emission rate based on the following equation:

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

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

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY

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

## PART 70 OPERATING PERMIT
## EMERGENCY OCCURRENCE REPORT

Source Name: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007

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

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

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

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

If any of the following are not applicable, mark N/A **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<br>Describe:<br><br>Type of Pollutants Emitted: TSP, PM-10, $SO_2$, VOC, $NO_X$, CO, Pb, other: |
| Estimated amount of pollutant(s) emitted during emergency: |
| Describe the steps taken to mitigate the problem: |
| Describe the corrective actions/response steps taken: |
| Describe the measures taken to minimize emissions: |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY
# Compliance Data Section

## Part 70 Quarterly Report

Source Name: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007
Facility: All furnaces combined
Parameter: Amount of metal melted
Limit: 175,000 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 |
|---|---|---|---|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

9 No deviation occurred in this quarter.

9 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: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007
Facility: All furnaces combined
Parameter: Amount of flux used
Limit: 34,909 pounds of organic flux per twelve (12) consecutive month period with compliance determined at the end of each month, where 100 pounds of inorganic flux is equivalent to 1 pound of organic flux

YEAR:

| Month | Column 1 | | | Column 2 | | | Column 1 + Column 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | This Month | | | Previous 11 Months | | | 12 Month Total | | |
| | Organic flux used (lb) | Inorganic flux used (lb) | Total equivalent organic flux used (lb) | Organic flux used (lb) | Inorganic flux used (lb) | Total Equivalent organic flux used (lb) | Organic flux used (lb) | Inorganic flux used (lb) | Total Equivalent organic flux used (lb) |
| Month 1 | | | | | | | | | |
| Month 2 | | | | | | | | | |
| Month 3 | | | | | | | | | |

9 No deviation occurred in this quarter.

9 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

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

### Source Description and Location

| | |
|---|---|
| Source Name: | General Motors Corporation - GMPTG-Bedford |
| Source Location: | 105 GM Drive, Bedford, Indiana 47421 |
| County: | Lawrence |
| SIC Code: | 3363, 3365 |
| Operation Permit No.: | T093-5652-00007 |
| Operation Permit Issuance Date: | December 19, 2003 |
| Significant Source Modification No.: | 093-23139-00007 |
| Significant Permit Modification No.: | 093-23231-00007 |
| Permit Reviewer: | ERG/YC |

### Existing Approvals

The source was issued Part 70 Operating Permit No. T093-5652-00007 on December 19, 2003. The source has since received the following approvals:

(a) First Minor Permit Modification No. 093-19635-00007, issued on January 27, 2005.

(b) Third Administrative Amendment No. 093-20540-00007 issued on March 30, 2006.

### County Attainment Status

The source is located in Lawrence County.

| Pollutant | Status |
|---|---|
| PM10 | Attainment |
| PM2.5 | Attainment |
| $SO_2$ | Attainment |
| $NO_2$ | Attainment |
| 1-hour Ozone | Attainment |
| 8-hour Ozone | Attainment |
| CO | Attainment |
| Lead | Attainment |

(a) Lawrence County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.

(b) Volatile organic compounds (VOC) emissions and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Lawrence County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

(d) Fugitive Emissions

This type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and there are no applicable New Source performace standards that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

[Note: The type of aluminum scrap processed at this source is limited. Pursuant to Condition D.3.2(j) in T093-5652-00007, issued on December 19, 2003, the Permittee shall not melt any post-consumer scrap materials in any of the furnaces at this source. Only General Motors returns and/or returns from non-General Motors sources where the composition of the purchased returns have at least the same quality as the General Motors returns shall be melted in any of the furnaces. The non-General Motors returns shall be specified contractually, and the quality of the returns shall be controlled contractually. Therefore, this source is not considered a secondary metal production facility and is not in one of the 28 listed source categories.]

## Source Status

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

| Pollutant | Emissions (tons/year) |
|---|---|
| PM | Less than 250 |
| PM10 | Less than 250 |
| $SO_2$ | 0.99 |
| VOC | 80.7 |
| CO | 142 |
| $NO_x$ | 169 |

* Note: This information is from the TSD for T093-5652-00007, issued on December 19, 2003.

This existing source is not a major stationary source, under PSD (326 IAC 2-2), because none of the regulated pollutants is emitted at a rate of 250 tons per year or more, and it is not in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

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

| HAPs | Potential To Emit (tons/year) |
|---|---|
| A single HAP | Less than 10 |
| Total HAPs | Less than 25 |

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

## Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

| Pollutant | Actual Emissions (tons/year) |
|---|---|
| PM | 23.0 |
| PM10 | 23.0 |
| $SO_2$ | 0.00 |
| VOC | 4.00 |
| CO | 59.0 |
| $NO_x$ | 70.0 |
| HAPs | Less than 10.0 tons for a single HAP and less than 25 tons total HAPs |

## Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by General Motors Corporation – GMPTG – Bedford (referred to as "GM-Bedford") on May 26, 2006, relating to the following modifications:

(a) Construction and operation of a new dry hearth furnace, identified as DC No. 9, with a maximum heat input capacity of 90 MMBtu/hr and a maximum throughput rate of 22.5 tons of aluminum per hour. Inorganic flux will be used at this furnace with a maximum usage of 7.00 pounds of inorganic flux per ton of metal.

(b) Removal of the existing reverberatory melting furnace RF-7.

GM-Bedford is an existing aluminum die casting facility and aluminum foundry, permitted to operate under T093-5652-00007, issued on December 19, 2003. Currently, there are thirteen (13) dry hearth and melting furnaces at this source. In order to be a PSD minor source, the total aluminum input rate for these furnaces is limited to 175,000 tons per year. The Permittee proposed to retain this aluminum throughput limit after this modification.

In addition, the Permittee requested the following changes to their plant which are not considered modifications:

(a) Moving the melter portion of the reverberatory furnace complex 6 to the area which is currently occupied by reverberatory furnace RF-7. This will not increase the potential to emit of the existing furnace complex 6. The description of this furnace complex has been revised to be a dry hearth melter (identified as DH No. 6) and a reverberatory holding furnace (identified as RF No. 6). Each of the unit has a maximum capacity of 2.5 tons of metal per hour. Complex 6 no longer exists.

(b) Reverberatory furnace RF-5 has already been retired as of April 1, 2006. Reverberatory furnaces RF-16 and RF-19, and crusher operations are scheduled to be retired by the end of 2006. However, these units will not be dismantled and removed from the facility. The Permittee requested these units and the associated requirements remain in the permit.

(c) The general source phone should be (812) 279-7271.

(d) Description changes to the units in Conditions A.2 and A.3 which will not affect the potential to emit of the source. See Conditions A.2 and A.3 in the section of Proposed Changes for the proposed changes.

(e) The dry chips are processed through the natural gas-fired aluminum chip dryer, not the afterburner. Therefore, the descriptive information in Condition D.1.8(c) should be revised to reflect this change (see the section of Proposed Changes).

Upon further review, IDEM, OAQ has made the following changes:

1. All references to IDEM, OAQ's contact numbers have been revised as follows:

   Phone: 317-233-~~5674~~ **0178**
   Fax: 317-233-~~5967~~ **6865**

2. Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule became effective March 16, 2005; therefore, the condition reflecting this rule will be incorporated into this permit as Condition B.24 Credible Evidence.

3. The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Condition C.1 has been revised to remove paragraph (a) which contained these requirements, and since the requirements of the 326 IAC 6-3-2(d) that were effective June 12, 2002 are now federally enforceable, the last statement in Conditions C.1(b) and D.11.1(b) has been removed.

4. IDEM has determined that failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, is considered a deviation from this permit, not a violation. This change has been made throughout the whole permit.

5. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. Therefore, a requirement has been added to Conditions D.1.6 and D.2.5 requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

6. Upon further review, IDEM has determined that once per day visible emission notations and once per day monitoring of the control device is generally sufficient to ensure proper operation of the emission units and control devices. Therefore, the monitoring frequency has been changed from once per shift to once per day in the revised permit.

7. IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

8. Condition D.2.9 (now D.2.8) has been revised for those processes that operate in batch mode. The condition required an emission unit to be shut down immediately in case of baghouse failure. However, IDEM is aware that there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised the condition to state that in the case of dust collector failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable.

9. The startup, shutdown, and malfunction (SSM) plan requirement in 40 CFR 63.1516 was amended on April 20, 2006. Therefore, the SSM plan requirement in Condition D.1.8(c)

has been revised to reflect the most current language in this rule. However, since 326 IAC 20-70 incorporates the July 1, 2005 version of 40 CFR 63 Subpart RRR, the existing requirements in Condition D.1.8(c) is still in effect under the Indiana State rules. Condition D.1.8(c) has been revised to reflect these changes (see the section of Proposed Changes).

## Enforcement Issues

There are no pending enforcement actions.

## Stack Summary

| Stack ID | Operation | Height (feet) | Diameter (feet) | Flow Rate (acfm) | Temperature ($^0$F) |
|---|---|---|---|---|---|
| 9-1 Com Hood | Furnace DC No. 9 | 52 | 4 | 90,000 | 125 |
| MH 9-2 Flue | Furnace DC No. 9 | 52 | 6 | 60,000 | 525 |
| M DC 9-3 Flue | Furnace DC No. 9 | 52 | 6 | 60,000 | 525 |

## Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 and 2).

## Permit Level Determination – Part 70

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

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

| Pollutant | Potential To Emit (tons/year) |
|---|---|
| PM | 126 |
| PM10 | 126 |
| $SO_2$ | 0.24 |
| VOC | 2.17 |
| CO | 33.1 |
| $NO_x$ | 39.4 |

| HAPs | Potential To Emit (tons/year) |
|---|---|
| HCl | 0.002 |
| HF | 0.01 |
| TOTAL | 0.012 |

This modification is being performed through a Part 70 Significant Source Modification because the potential to emit PM/PM10 and NOx from this modification is greater than 25 tons/yr pursuant to 326 IAC 2-7-10.5 (f)(4). The permit modification is being performed through a Part 70 Significant Permit Modification pursuant to 326 IAC 2-7-12(d) because this modification does require a case-by-case determination of an emission limitation.

## Permit Level Determination – PSD

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

| | Potential to Emit (tons/year) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Process/Emission Unit** | **PM** | **PM10** | **$SO_2$** | **VOC** | **CO** | **$NO_X$** | **HAPs** |
| PTE of the New Furnace (DC No. 9) | Less than 156 | Less than 156 | 0.24 | 2.17 | 33.1 | 39.4 | Less than 9.60 for a single HAP and 13.9 for total HAPs |
| PTE of the Existing Furnaces* | | | 0.81 | 24.9 | 114 | 135 | |
| PTE of the Existing Chip Dryer* | Less than 58.4 | Less than 58.4 | 0.02 | 51.4 | 2.51 | 2.99 | Negligible |
| PTE of the Existing Scrap Metal Crusher* | Less than 1.03 | Less than 1.03 | - | - | - | - | - |
| PTE of the Existing Boiler* | 0.30 | 0.30 | Negligible | 0.20 | 3.70 | 4.40 | Negligible |
| PTE of the Entire Source after this Modification | Less than 216 | Less than 216 | 1.07 | 78.7 | 153 | 182 | Less than 9.60 for a single HAP and 13.9 for total HAPs |
| Significant Level or Major PSD Threshold | 250 | 250 | 250 | 250 | 250 | 250 | NA |

* The information for the PTE of the existing units is from Appendix A of the TSD for the source's Part 70 permit T093-5652-00007, issued on December 19, 2003. The PTE of the existing furnaces do not include the PTE of the removed furnaces RF-3 and RF-7.

This modification to an existing PSD minor stationary source is not major because the emissions increase is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. This source will remain a PSD minor source after this modification since the PTE of the entire source is still limited to less than 250 tons per year.

## Federal Rule Applicability Determination

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

(b) The proposed dry hearth furnace DC No. 9 is not considered a secondary aluminum production facility and this existing source is a minor source for HAP. Therefore, the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Secondary Aluminum Production (326 IAC 20, 40 CFR 63.1500-1520, Subpart RRR) are not included in this modification.

(c) This modification does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1:

(1) With the potential to emit before controls equal to or greater than the major source threshold.

(2) That is subject to an emission limitation or standard; and

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

Therefore, the requirements of 40 CFR 64 (Compliance Assurance Monitoring) are not included in this modification.

## State Rule Applicability Determination

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

**State Rule Applicability – Dry Hearth Furnace DC No. 9**

326 IAC 2-2 (Prevention of Significant Deterioration)

This existing aluminum foundry was constructed in 1974 and is not in one of the twenty-eight (28) listed source categories. The unlimited potential to emit PM and PM10 of this source is greater than 250 tons per year. The Permittee has agreed to comply with the following PSD minor limits in T093-5652-00007, issued on December 19, 2003:

(a) The total amount of metal melted by all the furnaces combined shall not exceed 175,000 tons per twelve (12) consecutive month period.

(b) The PM emissions from each of the furnaces shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

(c) The PM10 emissions from each of the furnaces shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

(d) The Permittee shall not melt any post-consumer scrap materials in any of the furnaces at this source. Only General Motors returns and/or returns from non-General Motors sources where the composition of the purchased returns have at least the same quality as the General Motors returns shall be melted in any of the furnaces. The non-General Motors returns shall be specified contractually, and the quality of the returns shall be controlled contractually. Therefore, this source is not considered a secondary metal production facility and is therefore, not one of the 28 listed source categories.

Therefore, the PM/PM10 emissions from the existing source are limited to less than 250 tons per year and this existing source is a PSD minor source.

Since the potential to emit of the proposed furnace (DC No. 9) is less than 250 tons per year, this modification is minor under PSD review. In addition, the Permittee proposed to comply with the existing total throughput limit (175,000 tons of aluminum per year) and a PM/PM10 emission limit of 1.28 pounds per ton of aluminum processed for the new furnace. Therefore, this source remains a minor PSD source after this modification and the requirements of 326 IAC 2-2 (PSD) are not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This existing source is a minor source for HAPs. The potential to emit HAP of this modification is less than 10 tons/yr for a single HAP and less than 25 tons/yr for total HAPs. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 5-1 (Opacity Limitations)

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%) 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.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The allowable particulate emissions from the proposed dry hearth furnace (DC No. 9) shall be limited to 33.0 lbs/hr when the process weight rate is 22.5 tons per hour.

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

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour

shall be accomplished by use of the equation:

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

According to the emission calculations (see Appendix A), the potential to emit PM from the proposed dry hearth furnace (DC No. 9) is less than the limit above. Therefore, this new furnace is capable of complying with the requirements in 326 IAC 6-3-2.

**State Rule Applicability – Dry Hearth Melter DH No. 6 and Reverberatory Holding Furnace RF No. 6**

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The allowable particulate emissions from each of the existing dry hearth melter DH No. 6 and reverberatory holding furnace RF No. 6 shall be limited to 7.58 lbs/hr when the process weight rate is 2.5 tons per hour.

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

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

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

## Testing Requirements

The PM/PM10 emission factors for the new dry hearth furnace (DC No. 9) used in the emission calculations were provided by the source and have not been verified by stack testing. In order to demonstrate compliance with the 326 IAC 2-2 (PSD) and 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the Permittee shall perform PM and PM10 testing for dry hearth furnace DC No. 9, within 60 days after achieving the maximum capacity, but not later than 180 days after start-up of this unit, utilizing methods as approved by the Commissioner. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C - Performance Testing.

## Compliance Determination and Monitoring Requirements

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

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

The Compliance Determination Requirements applicable to this modification are as follows:

1. The dry hearth furnaces at this source melt only clean charge and are natural gas fired units. No visible emission notations are required for the dry hearth furnace at this source. This determination was made in T093-5652-00007, issued on May 26, 2006. Therefore,

there will be no visible emission notation requirements for the proposed dry hearth furnace DC No. 9.

**Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit No. 093-5652-00007. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

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

The Permittee owns and operates a stationary aluminum die casting facility and aluminum foundry.

| | |
|---|---|
| Responsible Official: | Plant Manager |
| Source Address: | 105 GM Drive, Bedford, Indiana 47421 |
| Mailing Address: | 105 GM Drive, Bedford, Indiana 47421 |
| General Source Phone Number: | (812) 279-~~7404~~**7271** |
| SIC Code: | 3363, 3365 |
| County Location: | Lawrence |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Permit Program<br>Minor Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>**Not in 1 of 28 Source Categories** |

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

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

**Chip Processing**

(a) One (1) natural gas-fired aluminum chip dryer constructed in 1974, referred to as CHIP-2, with a maximum capacity of 7.60 tons of **scrap** aluminum **chips** per hour and a maximum heat input capacity of 6.83 million Btu per hour, with emissions controlled by a baghouse and an afterburner AB-1, and exhausting to stack 10.

**Aluminum Crushing**

(b) One (1) scrap metal crusher device, referred to as CRUSH, constructed in 1974 with a maximum crushing capacity of 37.5 tons of aluminum scrap per hour, with emissions controlled by a ~~baghouse~~ **cartridge collector**, and exhausting to stacks CRUSH-1.

**Die Cast Melting**

. . .

(h) One (1) natural gas-fired dry hearth furnace, identified as ~~n~~**N**umber 10, constructed in 2002, with a maximum heat input capacity of 50 million ~~British thermal units~~ **Btu** per hour, and a maximum melt rate of 12.5 tons of aluminum per hour, with emissions uncontrolled, and exhausting to stacks DH-10-1, DH-10-2, and DH-10-3.

**Piston Melting**

(i) One (1) natural gas-fired dry hearth furnace, identified as ~~n~~**N**umber 13, constructed in 2002, with a maximum heat input capacity of 10 million ~~British thermal units~~ **Btu** per hour, and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH**-13-1.**

~~**Piston Melting**~~

(j) One (1) natural gas-fired dry hearth furnace, identified as ~~n~~**N**umber 14, constructed in 2003, with a maximum heat input capacity of 10 million ~~British thermal units~~ **Btu** per hour and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-14-1.

(k) One (1) natural gas-fired reverberatory furnace, identified as ~~n~~**N**umber 18A, constructed in 2003, with a maximum heat input capacity of 7 million ~~British thermal units~~ **Btu** per hour, and a maximum capacity of 2.0 tons of aluminum per hour, nine (9) pounds of inorganic flux per ton of metal, and two (2) pounds of organic flux per ton of metal, with emissions uncontrolled, and exhausting to stacks 261 and 264.

. . .

~~(m) One (1) natural gas-fired reverberatory melting furnace complex, referred to as complex 6 and RF-6, consisting of two natural gas-fired reverberatory furnaces, constructed in 1999, with a maximum capacity of 5 tons of metal per hour and 0.1 pounds of inorganic flux per ton of metal, and with a combined maximum heat input capacity of 33 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 6-1, 6-3, and charge well stacks 6-2 and 6-4.~~

**(m) One natural gas-fired dry hearth melter, referred to DH No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 25 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-1, and 6-2.**

**(n) One natural gas-fired reverberatory holding furnace, referred to RF No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 8 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-3, and 6-4.**

~~(n) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-7 and as PIST MELT - #7, constructed in 1976, with a maximum capacity of 6.6 tons of metal per hour, 9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 39.6 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 275 and 276.~~

. . .

**(p) One (1) natural gas-fired dry hearth furnace, identified as DC No. 9, constructed in 2006, with a maximum melt rate of 22.5 tons of aluminum per hour, a maximum inorganic flux usage of 7.0 pounds per ton of metal, and a maximum heat input capacity of 90 million Btu per hour, and exhausting to stacks 9-1, 9-2, and 9-3.**

**Natural Gas-Fired Boiler**

(~~p~~**q**) One (1) natural gas-fired boiler, referred to as the POWER - tool room boiler, constructed in 1966, with a maximum heat input capacity of 10.05 million Btu per hour, with emissions uncontrolled, and exhausting to stack 30 which has a height of 50 feet.

A.3 Specifically Regulated Insignificant Activities

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

. . .

(d) Emission units with PM and PM10 emissions less than five (5) tons per year, $SO_2$, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year [326 IAC 6-3-2].

. . .

~~(9) Ladle weigh station;~~

(~~10~~**9**) Die cast machines and associated small holding furnaces; **and**

(~~11~~**10**) Permanent mold machines and associated small holding furnaces~~; and~~**.**

~~(12) Barrel furnace.~~

**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.**

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour ~~[40 CFR 52 Subpart P]~~ [326 IAC 6-3-2]

~~(a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds 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 condition is not federally enforceable.~~

**SECTION D.1 FACILITY OPERATION CONDITIONS**

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

**Chip Processing**

(a) One (1) natural gas-fired aluminum chip dryer constructed in 1974, referred to as CHIP-2, with a maximum capacity of 7.60 tons of **scrap** aluminum **chips** per hour and a maximum heat input capacity of 6.83 million Btu per hour, with emissions controlled by a baghouse and an afterburner AB-1, and exhausting to stack 10.

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

. . .

D.1.8 Secondary Aluminum Smelting NESHAP Monitoring Requirements [40 CFR Part 63, Subpart RRR] **[326 IAC 20-70]**

. . .

(c) The Permittee shall develop ~~and implement~~ a written plan that contains specific procedures to be followed for operating and maintaining the source during periods of

startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the emission limit. The Permittee shall keep records of each event as required by 40 CFR 63.10(b) and record and report if an action taken during startup, shutdown, or malfunction is not consistent with the procedures in the startup, shutdown, and malfunction plan. The plan shall include [40 CFR 63.1516(a)].

(1) The procedures to determine and record the cause of a malfunction and the time the malfunction began and ended; and

(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including the actions taken to correct the malfunction or minimize emissions.

**Pursuant to 326 IAC 20-70, the Permittee shall implement the plan described in Condition D.1.8(c) until the amendment to 40 CFR 63, Subpart RRR, promulgated on April 20, 2006 (71 Fed. Reg. 20,446 (April 20, 2006)), has been incorporated into 326 IAC 20-70. This requirement is not federally enforceable.**

(d) Pursuant to 40 CFR 63.1510(e), the Permittee shall install, calibrate, operate, and maintain a device to measure and record the total weight of dry chips processed through the ~~afterburner~~ **natural gas-fired aluminum chip dryer** for each operating cycle or time period used in the performance test consistent with US EPA's April 15, 2003 approval of alternative monitoring for the thermal chip dryer.

D.1.9 Visible Emissions Notations

(a) Visible emission notations of the chip dryer (CHIP-2) stack exhaust shall be performed once per day during normal daylight operations when the chip dryer operates for more than one daylight hour. ~~When required in accordance with Section D.1.10(b), visible emission notations of the chip dryer (CHIP-2) stack exhaust shall be performed once per shift during normal daylight operations when the chip dryer operates for more than one daylight hour.~~ A trained employee shall record whether emissions are normal or abnormal.

. . .

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a ~~violation of~~ **deviation from** this permit.

D.1.10 Parametric Monitoring

(a) The Permittee shall ~~operate a continuous monitor of~~ **record** the pressure drop across the thermal chip dryer baghouse at ~~all times~~ **least once per day** when the thermal chip dryer is in operation, ~~unless monitor downtime occurs, in which case the actions described in (b) below shall be initiated. The Permittee shall record the 15-minute block average of static pressure drop across the baghouse controlling the thermal chip dryer at least four equally-spaced times during each hour of operation.~~ When for any one 15-minute block average reading, the pressure drop across the baghouse is outside the normal range of 0.5 to 7.0 inches of water, the Permittee shall take reasonable response steps in accordance with Section C B Compliance Response Plan B Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a ~~violation of~~ **deviation from** this permit.

~~(b) For any period during which continuous monitor downtime exceeds four consecutive hours, the Permittee shall record the total static pressure drop across the baghouse controlling the thermal chip dryer at least once per shift when the thermal chip dryer is in~~

~~operation and initiate visible emissions readings in accordance with Section D.1.9. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 to 7.0 inches of water, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan B Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. After the continuous monitor returns to normal operation, the Permittee shall revert back to the requirements of Section D.1.10(a) above.~~

(~~c~~**b**) The instruments used for determining the pressure shall comply with Section C B Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated during April and October of each year.

D.1.11 Broken or Failed Bag Detection

~~In the event that bag failure has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions), or if safety concerns prevent immediate shutdown. If safety concerns prevent immediate shutdown, then feed to the associated process shall be shut off immediately and the process shall be shutdown as soon as shutdown would be considered safe.~~

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

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

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

~~D.1.12 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of the clean end of the baghouse controlling the thermal chip dryer. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

D.1.~~13~~**12** Record Keeping Requirements [40 CFR 63, Subpart RRR]

. . .

(b) In order to document compliance with condition D.1.10, the Permittee shall maintain records of the ~~total static~~ pressure drop once per ~~shift~~ **day** during normal operation ~~when venting to the atmosphere~~.

~~(c) In order to document compliance with Condition D.1.12, the Permittee shall maintain records of the results of the inspections required under Condition D.1.12.~~

(~~d~~**c**) Pursuant to 40 CFR 63, Subpart RRR, in addition to the general records required by 40 CFR 63.10(b), the Permittee shall maintain:

. . .

(~~e~~**d**) The Permittee shall maintain files of all information, including reports and notifications, required by 40 CFR 63.10 and 40 CFR 63.1517. The Permittee shall retain each record for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent two (2) years of records shall be retained at the source. The remaining three (3) years of records may be retained off-site. The Permittee may retain records on microfilm, computer disks, magnetic tape or microfiche.

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

D.1.~~14~~**13** Reporting Requirements [40 CFR 63, Subpart RRR]

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

**Aluminum Crushing**

(b) One (1) scrap metal crusher device, referred to as CRUSH, constructed in 1974 with a maximum crushing capacity of 37.5 tons of aluminum scrap per hour, with emissions controlled by a ~~baghouse~~ **cartridge collector**, and exhausting to stacks CRUSH-1.

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

D.2.5 Particulate

**(a)** Pursuant to SSM 093-13639-00007, issued June 16, 2002, and in order to comply with Conditions D.2.1 and D.2.2, the dust collector shall be in operation at all times when the scrap metal crusher (CRUSH) is in operation.

**(b) In the event that cartridge 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.**

D.2.6 Visible Emissions Notations

(a) Visible emission notations of the scrap metal crusher (CRUSH) stack exhaust shall be performed once per ~~shift~~ **day** during normal daylight operations when the scrap metal crusher operates more than one daylight hour. A trained employee shall record whether emissions are normal or abnormal.

. . .

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a ~~violation of~~ **deviation from** this permit.

D.2.7 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the dust collector controlling the scrap metal crusher (CRUSH) at least once per ~~shift~~ **day** when the scrap metal crusher (CRUSH) is in operation more than one daylight hour. In lieu of manually recording the pressure drop, the Permittee may install and operate a continuous recording device. When for any one reading, or in the case of a continuous recording device for any 15-minute average, the pressure drop across the baghouse is outside the normal range of 1.0 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a ~~violation of~~ **deviation from** this permit.

. . .

~~D.2.8 Dust Collector Inspections~~

~~An inspection shall be performed each calendar quarter of the clean end of the dust collector controlling the scrap metal crusher (CRUSH) processes. Inspections required by this condition shall not be performed in consecutive months. All defective cartridge filters shall be replaced.~~

D.2.~~9~~**8** Broken or Failed Cartridge Filter Detection

~~In the event that cartridge filter failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b) For single compartment dust collectors if failure is indicated by a significant drop in the dust collector=s pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if cartridge filter failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions), or if safety concerns prevent immediate shutdown. If safety concerns prevent immediate shutdown, then feed to the associated process shall be shut off immediately and the process shall be shutdown as soon as shutdown would be considered safe.~~

**(a) For a single compartment cartridge filter 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 cartridge filter 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.**

D.2.~~10~~**9** Record Keeping Requirements

(a) In order to document compliance with Condition D.2.6, the Permittee shall maintain records of visible emission notations of the ~~baghouse~~ **dust collector** stack exhaust once per ~~shift~~ **day when the scrap metal crusher operates more than one daylight hour**.

(b) In order to document compliance with condition D.2.7, the Permittee shall maintain records of ~~total static~~ pressure drop once per ~~shift~~ **day** during normal operation ~~when venting to the atmosphere~~ **when the scrap metal crusher operates more than one daylight hour**.

~~(c) In order to document compliance with Condition D.2.8, the Permittee shall maintain records of the results of the inspections required under Condition D.2.8.~~

. . .

**SECTION D.3 FACILITY OPERATION CONDITIONS**

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

**Die Cast Melting**

. . .

(h) One (1) natural gas-fired dry hearth furnace, identified as ~~#~~**N**umber 10, constructed in 2002, with a maximum heat input capacity of 50 million ~~British thermal units~~ **Btu** per hour, and a maximum melt rate of 12.5 tons of aluminum per hour, with emissions uncontrolled, and exhausting to stacks DH-10-1, DH-10-2, and DH-10-3.

**Piston Melting**

(i) One (1) natural gas-fired dry hearth furnace, identified as ~~#~~**N**umber 13, constructed in 2002, with a maximum heat input capacity of 10 million ~~British thermal units~~ **Btu** per hour, and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH**-13-1.**

~~**Piston Melting**~~

(j) One (1) natural gas-fired dry hearth furnace, identified as ~~#~~**N**umber 14, constructed in 2003, with a maximum heat input capacity of 10 million ~~British thermal units~~ **Btu** per hour and a maximum capacity of 2.08 tons of aluminum per hour, and one (1) pound of inorganic flux per ton of metal, with emissions uncontrolled, and exhausting to stack DH-14-1.

(k) One (1) natural gas-fired reverberatory furnace, identified as ~~#~~**N**umber 18A, constructed in 2003, with a maximum heat input capacity of 7 million ~~British thermal units~~ **Btu** per hour, and a maximum capacity of 2.0 tons of aluminum per hour, nine (9) pounds of inorganic flux per ton of metal, and two (2) pounds of organic flux per ton of metal, with emissions uncontrolled, and exhausting to stacks 261 and 264.

. . .

~~(m) One (1) natural gas-fired reverberatory melting furnace complex, referred to as complex 6 and RF-6, consisting of two natural gas-fired reverberatory furnaces, constructed in 1999, with a maximum capacity of 5 tons of metal per hour and 0.1 pounds of inorganic flux per ton of metal, and with a combined maximum heat input capacity of 33 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 6-1, 6-3, and charge well stacks 6-2 and 6-4.~~

**(m) One natural gas-fired dry hearth melter, referred to DH No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 25 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-1, and 6-2.**

**(n) One natural gas-fired reverberatory holding furnace, referred to RF No. 6, constructed in 1999, with a maximum capacity of 2.5 tons of metal per hour, and 0.1 pounds of inorganic flux per ton of metal, and with a maximum heat capacity of 8 million Btu per hour with emissions uncontrolled, and exhausting to stacks 6-3, and 6-4.**

~~(n) One (1) natural gas-fired reverberatory melting furnace, referred to as RF-7 and as PIST MELT - #7, constructed in 1976, with a maximum capacity of 6.6 tons of metal per hour, 9 pounds of inorganic flux per ton of metal, 2 pounds of organic flux per ton of metal, and a maximum heat input capacity of 39.6 million Btu per hour, with emissions uncontrolled, and exhausting to stacks 275 and 276.~~

. . .

**(p) One (1) natural gas-fired dry hearth furnace, identified as DC No. 9, constructed in 2006, with a maximum melt rate of 22.5 tons of aluminum per hour, a maximum inorganic flux usage of 7.0 pounds per ton of metal, and a maximum heat input capacity of 90 million Btu per hour, and exhausting to stacks 9-1, 9-2, and 9-3.**

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), ~~and SSM 093-13639-00007, issued June 16, 2002,~~ the particulate emission rate from the following units shall be limited as follows when operating at the listed process weight rate:

| Unit | Process Weight Rate (ton/hr) | PM Emission Limit (lb/hr) |
|---|---|---|
| Reverberatory Furnace RF-2 (DC MELT B - #2) | 6.25 | 14 |
| Reverberatory Furnace RF-3 (DC MELT A - #3) | 3.4 | 9.31 |
| Reverberatory Furnace RF-11 (DC MELT A - #11) | 5.1 | 12.21 |
| Reverberatory Furnace RF-12 (DC MELT A - #12) | 10.0 | 19.18 |
| Reverberatory Furnace RF-16 (DC MELT A - #16) | 4.87 | 11.84 |
| Dry Hearth Furnace Number 10 | 12.5 | 22.27 |
| Dry Hearth Furnace Number 13 | 2.08 | 6.70 |
| Dry Hearth Furnace Number 14 | 2.08 | 6.70 |
| Reverberatory Furnace Number 18A | 2.0 | 6.52 |

| | | |
|---|---|---|
| Reverberatory Furnace RF-5 (PIST MELT - #5) | 4.17 | 10.67 |
| Dry Hearth Melter (DH No. 6) | **2.50** | **7.58** |
| Reverberatory **Holding** Furnace ~~Complex 6~~ (RF- **No.** 6) | ~~5.0~~<br>**2.50** | ~~12.05~~<br>**7.58** |
| ~~Reverberatory Furnace RF-7 (PIST MELT - #7)~~ | ~~6.6~~ | ~~14.52~~ |
| Reverberatory Furnace RF-19 (PIST MELT - #19) | 4.67 | 11.51 |
| **Dry Hearth Furnace DC No. 9** | **22.5** | **33.0** |

. . .

D.3.2 PSD Minor Limit [326 IAC 2-2]

Pursuant to SSM 093-13639-00007, issued June 16, 2002, **and SSM 093-23139-00007**, the source shall comply with conditions (a), (b), (c), (d), and (~~j~~**k**)in order to render the requirements of 326 IAC 2-2 (PSD) not applicable to the dry hearth furnaces #**9,** 10, 13, and 14 and reverberatory furnace #18A, and in order for the source to maintain minor PSD status. Pursuant to SSM 093-13639-00007, issued June 16, 2002, revised by this Part 70 permit, the source shall comply with conditions (a), ~~(d),~~ (e) **through (j)**, ~~(f), (g), (h), and (i)~~ in order to limit the potential to emit of any single HAP to less than 10 tons per year and any combination of HAPs to less than 25 tons per year, such that the source will be a minor source of HAPs.

(a) The total amount of metal melted by all the furnaces combined shall not exceed 175,000 tons per twelve (12) consecutive month period **with compliance determined at the end of each month**.

(b) The PM emissions from each of the furnaces**, other than furnace DC No. 9,** shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

(c) The PM10 emissions from each of the furnaces**, other than furnace DC No. 9,** shall not exceed 1.78 pounds per ton of metal melted averaged over the melt cycle.

**(d) The PM/PM10 emissions from furnace DC No. 9 shall not exceed 1.28 pounds per ton of metal melted averaged over the melt cycle.**

(~~d~~**e**) The amount of organic flux used in all of the furnaces combined shall not exceed 34,909 pounds per twelve (12) consecutive month period **with compliance determined at the end of each month**, where 100 pounds of inorganic flux is equivalent to 1 pound of organic flux.

(~~e~~**f**) The HCl emissions from the use of organic flux shall not exceed 0.55 pounds per pound of organic flux used.

(~~f~~**g**) The HF emissions from the use of organic flux shall not exceed 0.06 pounds per pound of organic flux used.

(~~g~~**h**) The hexachloroethane emissions from the use of organic flux shall not exceed 0.004 pounds per pound of organic flux used.

(~~h~~**i**) The HCl emissions from the use of inorganic flux shall not exceed 0.005 pounds per pound of inorganic flux used.

(~~i~~**j**) The HF emissions from the use of inorganic flux shall not exceed 0.03 pounds per pound of inorganic flux used.

(j**k**) The Permittee shall not melt any post-consumer scrap materials in any of the furnaces at this source. Only General Motors returns and/or returns from non-General Motors sources where the composition of the purchased returns have at least the same quality as the General Motors returns shall be melted in any of the furnaces. The non-General Motors returns shall be specified contractually, and the quality of the returns shall be controlled contractually. Therefore, this source is not considered a secondary metal production facility and is therefore, not one of the 28 listed source categories.

. . .

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

. . .

**(c) In order to demonstrate compliance with Condition D.3.2 (d), within 60 days after achieving the maximum production rate but not later than 180 days after initial startup, the Permittee shall perform PM and PM10 testing for the emissions from dry hearth furnace DC No. 9, utilizing methods as approved by the Commissioner. PM10 includes filterable PM10 and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.**

D.3.5 Record Keeping Requirements

(a) To document compliance with Condition D.3.2**(a)**, the Permittee shall keep records of the amount of metal melted in all of the furnaces combined, each month of operation.

(b) To document compliance with Condition D.3.2**(e)**, the Permittee shall keep records of the amount of organic flux used in all of the furnaces combined, each month of operation.

(c) To document compliance with Condition D.3.2**(e)**, the Permittee shall keep records of the amount of inorganic flux used in all of the furnaces combined, each month of operation.

(d) To document compliance with Condition D.3.2(j**k**), the Permittee shall keep records of the type of scrap used in the furnaces. The records shall be sufficient to demonstrate compliance with the requirements of D.3.2(j**k**).

. . .

D.3.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition**s** D.3.2**(a) and D.3.2(e)** shall be submitted to the address in Section C - General Reporting Requirements, 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 Aresponsible official@ as defined by 326 IAC 2-7-1(34).

## SECTION D.4 FACILITY OPERATION CONDITIONS

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

**Natural Gas-Fired Boiler**

(p**q**) One (1) natural gas-fired boiler, referred to as the POWER - tool room boiler, constructed in 1966, with a maximum heat input capacity of 10.05 million Btu per hour, with emissions uncontrolled, and exhausting to stack 30 which has a height of 50 feet.

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

**SECTION D.5 FACILITY OPERATION CONDITIONS**

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

. . .

(d) Emission units with PM and PM10 emissions less than five (5) tons per year, $SO_2$, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year [326 IAC 6-3-2]:

. . .

~~(9) Ladle weigh station;~~

(~~10~~**9**) Die cast machines and associated small holding furnaces; **and**

(~~11~~**10**) Permanent mold machines and associated small holding furnaces~~; and~~**.**

~~(12) Barrel furnace.~~

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
**OFFICE OF AIR QUALITY**
**COMPLIANCE BRANCH**
**100 North Senate Avenue**
**Indianapolis, Indiana 46204-2251**
**Phone: 317-233-~~5674~~ 0178**
**Fax: 317-233-~~5967~~ 6865**

**PART 70 OPERATING PERMIT**
**EMERGENCY OCCURRENCE REPORT**

Source Name: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007

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

9 This is an emergency as defined in 326 IAC 2-7-1(12)
$ The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-~~5674~~ **0178**, ask for Compliance Section); and
$ The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-~~5967~~ **6865**), and follow the other requirements of 326 IAC 2-7-16.

. . .

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY
# Compliance Data Section

## Part 70 Quarterly Report

Source Name: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007
Facility: All furnaces combined
Parameter: Amount of metal melted
Limit: 175,000 tons per twelve (12) consecutive month period **with compliance determined at the end of each month.**

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY
# Compliance Data Section
# Part 70 Quarterly Report

Source Name: General Motors Corporation - GMPTG - Bedford
Source Address: 105 GM Drive, Bedford, Indiana 47421
Mailing Address: 105 GM Drive, Bedford, Indiana 47421
Part 70 Permit No.: T093-5652-00007
Facility: All furnaces combined
Parameter: Amount of flux used
Limit: 34,909 pounds of organic flux per twelve (12) consecutive mo**n**th period **with compliance determined at the end of each month**, where 100 pounds of inorganic flux is equivalent to 1 pound of organic flux

**Conclusion and Recommendation**

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 093-23139-00007 and Significant Permit Modification No. 093-23231-00007. The staff recommend to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

**Appendix A: Emission Calculations**
**HAP Emissions**
**From Dry Hearth Furnace DC No. 9**

**Company Name: General Motors Corp. - GMPTG - Bedford**
**Address: 150 GM Dr., Bedford, IN 47421**
**SSM: 093-23139-00007**
**Reviewer: ERG/YC**
**Date: June 26 2006**

| | Max. Al Input Capacity (tons/hr) | Max. Flux Usage (lbs/ton) | Emission Factor (lbs/ton)* | | **Potential to Emit (tons/yr)** | |
|---|---|---|---|---|---|---|
| | | | HCl | HF | **HCl** | **HF** |
| **Inorganic Flux** | **22.5** | **7.00** | **0.01** | **0.03** | **1.72E-03** | **1.03E-02** |

*The emission factors are based on the HAP emission limits in T093-5652-00007, issued on 12/19/03.

**Total HAPs = 1.21E-02 tons/yr**

**Methodology**

PTE (tons/yr) = Max. Al Input Capacity (tons/hr) x Max. Flux Usage (lbs/ton) x 1ton/2000 lbs x Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs