



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: January 3, 2006
RE: Accucast Technology, LLC. / 141-21443-00010
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

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Sal Detraglia
Accucast Technology, L.L.C.
220 W. Eckman Street
South Bend, Indiana 46614

January 3, 2006

Re: **141-21443-00010**
First Minor Permit Modification to
Part 70 No.: T 141-6210-00010

Dear Mr. Detraglia:

Accucast Technology, L.L.C. was issued Part 70 Operating Permit T 141-6210-00010 on February 18, 1999 for a gray and ductile iron foundry. A letter requesting changes to this permit was received on April 18, 2005. Pursuant to the provisions of 326 IAC 2-7-12, a minor permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of adding a proposed metal oxide recovery system, consisting of one (1) electric channel induction furnace, identified as Unit 17, equipped with a baghouse. Section D.15 of the Part 70 Operating Permit has been amended to include this new system and Section D.15, which contained the insignificant activities, has been re-numbered as Section D.16.

The changes in the Part 70 Operating Permit are documented in the Technical Support Document. All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised Title V Operating Permit, with all modifications and amendments will be provided upon approval.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Mark L. Kramer, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Original signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
MLK/MES

cc: File - St. Joseph County
U.S. EPA, Region V
St. Joseph County Health Department
Northern Regional Office
Air Compliance Section Inspector - Rick Reynolds
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michelle Boner



MITCHELL E. DANIELS, JR.

Governor

THOMAS W. EASTERLY

Commissioner

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PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

Accucast Technology, L.L.C
220 W. Eckman Street
South Bend, Indiana 46614

(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.

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 and 326 IAC 2-1-3.2 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.: T141-6210-00010	
Original Signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: February 18, 1999 Expiration Date: February 18, 2004

First Significant Permit Modification No.: 141-11175-00010, issued February 22, 2000
First Administrative Amendment No.: 141-12734-00010, issued November 14, 2000
First Reopening No.: R 141-13477-00010, issued January 24, 2002

First Minor Permit Modification 141-21443-00010	Pages Affected: Entire Permit
Issued by: Original signed by Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: January 3, 2006

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Certification

Emergency/Deviation Occurrence Report

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SECTION A

SOURCE SUMMARY

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

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

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

Responsible Official: President
Source Address: 220 W. Eckman Street, South Bend, Indiana 46614
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46614
SIC Code: 3321
County Location: St. Joseph
County Status: Nonattainment for 8-hour ozone
attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules, Minor Source under Emission Offset
Rules.
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:

- (1) one (1) scrap and charge handling process, constructed in 1977, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled;
- (2) one (1) scrap preheater, constructed in 1980, with a maximum heat input capacity of 2.17 million Btu per hour, with emissions uncontrolled;
- (3) one (1) melting process, with a maximum capacity of 6 tons of iron per hour, uncontrolled, consisting of the following emission units;
 - (a) one (1) electric induction furnace, constructed in September 1983, identified as unit 11A, with a maximum capacity of 1.5 tons of metal per hour, with emissions uncontrolled;
 - (b) one (1) electric induction furnace, constructed in September 1983, identified as unit 11B, with a maximum capacity of 1.5 tons of metal per hour, with emissions uncontrolled;
 - (c) one (1) electric induction furnace, constructed in 1980, identified as unit 11C, with a maximum capacity of 3.0 tons of metal per hour, with emissions uncontrolled;
- (4) one (1) pouring/casting process, constructed prior to 1950, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled;
- (5) one (1) castings cooling process, constructed prior to 1950, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled;

- (6) one (1) shakeout system, constructed in 1977, identified as unit 6A, utilized for servicing the Herman and Slinger mold lines, with a maximum capacity of 6 tons of iron per hour and 30 tons of sand per hour, controlled by the north cyclone and a wet scrubber identified as CE-1A;
- (7) one (1) shakeout system, constructed in 1983, identified as unit 9A, utilized for servicing the Pinlift mold line, with a maximum capacity of 5 tons of iron per hour and 16 tons of sand per hour, with emissions uncontrolled;
- (8) one (1) castings cleaning/finishing operation consisting of the following emissions units:
 - (a) one (1) Tumbleblast shotblaster, constructed in November, 1965, identified as unit 3, with a maximum capacity of 3.5 tons of iron castings per hour, using a 6300 acfm baghouse identified as CE-4 as emissions control;
 - (b) one (1) Tableblast shotblaster, constructed in July, 1967, identified as unit 4, with a maximum capacity of 3.0 tons of iron castings per hour, using a 4500 acfm baghouse identified as CE-2 as control;
 - (c) one (1) Spinnerblast shotblaster, constructed in 1979, identified as unit 7, with a maximum capacity of 0.85 tons of iron castings per hour, using a 4500 acfm baghouse identified as CE-3 as control.
- (9) one (1) coremaking process, with a maximum capacity of 6 tons of iron per hour, uncontrolled, consisting of the following emission units:
 - (a) four (4) Shalco shell core machines, constructed in 1966, identified as emission units 13A through 13D, each with a maximum heat input capacity of 0.4 million British thermal units per hour, each with a maximum capacity of 250 pounds of sand per hour and 6.25 pounds of resin per hour;
 - (b) two (2) Beardsley and Piper corematics, constructed in 1974, identified as emission units 13E and 13F, each with a maximum heat input capacity of 0.5 million British thermal units per hour, each with a maximum capacity of 125 pounds of sand per hour and 3.125 pounds of resin per hour;
 - (c) one (1) Beardsley and Piper Petibone, constructed in 1974, identified as unit 13G, with a maximum heat input capacity of 0.2 million British thermal units per hour, with a maximum capacity of 150 pounds of sand per hour and 3.75 pounds of resin per hour;
 - (d) one (1) Howard water based core wash drying oven, constructed in 1987, identified as unit 15A, with a maximum heat input capacity of 0.2 million British thermal units per hour, with emissions exhausting through stack S3;
 - (e) one (1) Feco-A-Bangor Punta water based core wash drying oven, constructed in 1987, identified as unit 15B, with a maximum heat input capacity of 0.2 million British thermal units per hour, with emissions exhausting through stack S2;
 - (f) one (1) Dry-Sys Equipment core curing oven, constructed in 1956, identified as unit 15C, with a maximum heat input capacity of 0.2 million British thermal units per hour, with emissions uncontrolled and exhausting through stack S1;
 - (g) one (1) oil sand core making process, identified as unit 17, constructed prior to 1970, with a maximum capacity of 110 pounds of sand per hour and 3.52 pounds

of binder per hour;

- (h) one (1) no-bake core making process, identified as unit 20, constructed in 1976, with a maximum capacity of 1.25 tons of sand per hour and 0.015 tons of resin per hour;
- (10) one (1) muller green sand handling system including two (2) sand storage bins, each with a capacity of 150 tons, identified as unit 5, constructed in August 1976, with a maximum capacity of 60 tons of sand per hour, with emissions controlled by a wet scrubber, identified as CE-1B;
- (11) one (1) oil/shell core sand handling system, including two silos each with a capacity of 25 tons of sand, identified as unit 10A, constructed in 1977, with a maximum capacity of 2.11 tons of sand per hour, with emissions uncontrolled;
- (12) one (1) no-bake sand handling system, identified as unit 10, located in the south yard, constructed prior to 1970, with a maximum capacity of 1.25 tons of sand per hour, with emissions uncontrolled, and consisting of the following emission units:
 - (a) one (1) pneumatic air driven silo with a maximum capacity of 75 tons of sand; and
 - (b) one (1) sand hopper with a maximum capacity of 15 tons of sand.
- (13) one (1) Alphaset sand handling system, including one silo with a capacity of 50 tons of sand and one (1) storage hopper with a capacity of 10 tons, identified as unit 10B, constructed in 1976, with a maximum capacity of 5.0 tons of sand per hour, with emissions uncontrolled;
- (14) one (1) Slinger mold making operation including two (2) sand storage bins each with a capacity of 10 tons, identified as unit number 8, constructed in 1987, with a maximum capacity of 20 molds per hour, 10 tons of iron per hour, 20 tons of sand per hour, 640 pounds of customix per hour, and 12.8 pounds of alphaset per hour;
- (15) one (1) Herman mold making operation including two (2) sand storage bins, each with a capacity of 10 tons, constructed in 1977, with a maximum capacity of 20 molds per hour, 10 tons of iron per hour, 30 tons of sand per hour, and 960 pounds of customix per hour;
- (16) one (1) Pin-Lift mold making operation, constructed in 1970, with a maximum capacity of 35 molds per hour, 5 tons of iron per hour, 16 tons of sand per hour, and 512 pounds of customix per hour; and
- (17) one (1) magnesium treatment process for producing ductile iron, identified as unit number 22, constructed in 1977, with a maximum capacity of 6.0 tons of iron per hour, with emissions controlled with the use of the Sigmat process. The Sigmat process is essentially a box enclosure which holds the magnesium. The iron is poured into the box to react with the magnesium and smoke is unable to escape.
- (18) One (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01. This metal oxide recovery system was installed in 2005, and has a capacity of 2.00 tons of BOF/blast furnace briquettes per hour.

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

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

- (1) six (6) snag grinders, constructed in 1970, identified as units 2A through 2D, using a 20,535 acfm baghouse identified as CE-5 for emissions control;
- (2) nine (9) portable grinders, constructed in 1960, identified as units 2E through 2K, with emissions uncontrolled; and
- (3) one (1) welding/grinding station, constructed in 1960, identified as unit 2L, with emissions uncontrolled.

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:

- (1) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (2) 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 Permit No Defense [326 IAC 2-1-10] [IC 13]**
(a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
(b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."
- B.2 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, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.
- B.3 Permit Term [326 IAC 2-7-5(2)]**
This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.
- B.4 Enforceability [326 IAC 2-7-7(a)]**
(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.
(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- B.5 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.6 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.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]**
(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

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

- (c) Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAQ, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAQ, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) 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.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 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 certification 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 April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, 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 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 compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

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

B.12 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 (PMP) 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;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP 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:

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

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to

a violation of any limitation on emissions or potential to emit.

- (c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.13 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, except as provided in 326 IAC 2-7-16.

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee 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: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency 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 "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. 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 compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. 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:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.

- (c) 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, including any term or condition from a previously issued construction or operation permit, 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.
- (d) 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.
- (e) 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.
- (f) 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).
- (g) 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)]
- (h) 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.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

within ten (10) calendar days from the date of the discovery of the deviation.

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

of the permit or a rule. It does not include:

- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (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).

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. [326 IAC 2-5-3]

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

(a) The Permittee must comply with 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 should be certified by the "responsible official" as defined by 326 IAC

2-7-1(34) only if a certification is required by the terms of the applicable rule.

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

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

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

B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(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) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

- (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 approval required by 326 IAC 2-1 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), (c)(1), and (e)(2).

- (b) 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 by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]

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

B.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAQ, and 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAQ, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAQ, nor an authorized representative, may disclose the information unless and until IDEM, OAQ, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
 - (2) The Permittee, and IDEM, OAQ, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) IDEM, OAQ, shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) 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 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.27 Enhanced New Source Review [326 IAC 2]

The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any

previously unpermitted facilities and facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

B.28 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 Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]
Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate 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.
- C.2 Opacity [326 IAC 5-1]
Pursuant to 326 IAC 5-1-2 (Opacity), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of thirty percent (30%) 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 overlapping 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.
- 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)]
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.
- C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]
- (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 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 emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) **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 that the inspector be accredited is 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 methods 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 Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

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

C.10 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend compliance schedule 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

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

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

C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring,

supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.

- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.14 Pressure Gauge Specifications

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 ($\pm 2\%$) of full scale reading.

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

C.15 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 not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAQ, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAQ, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ,. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that 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 an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps 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.

**C.18 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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.19 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) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

- (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission 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
- (c) The annual 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.20 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:

- (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (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, any quarterly report shall be submitted within thirty

(30) days of the end of the reporting period.

- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) 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.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.23 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)]

- (a) one (1) scrap and charge handling process, constructed in 1977, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled;
- (b) one (1) scrap preheater, constructed in 1980, with a maximum heat input capacity of 2.17 million Btu per hour, with emissions uncontrolled.

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

D.1.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the following conditions shall apply:

- (a) The PM emissions from the scrap and charge handling operation shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.
- (b) The PM emissions from the scrap preheater shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

D.1.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing if it is necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Determination Requirements

D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

one (1) melting process, with a maximum capacity of 6 tons of iron per hour, uncontrolled, consisting of the following emission units;

- (a) one (1) electric induction furnace, constructed in September 1983, identified as unit 11A, with a maximum capacity of 1.5 tons of metal per hour, with emissions uncontrolled;
- (b) one (1) electric induction furnace, constructed in September 1983, identified as unit 11B, with a maximum capacity of 1.5 tons of metal per hour, with emissions uncontrolled; and
- (c) one (1) electric induction furnace, constructed in 1980, identified as unit 11C, with a maximum capacity of 3.0 tons of metal per hour, with emissions uncontrolled.

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

D.2.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the particulate matter (PM) from each of the three electric induction furnaces shall not exceed 0.07 grains per dry standard cubic foot of exhaust air.

Compliance Determination Requirements

D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 36 months after the issuance of this permit, the Permittee shall perform PM testing on each of the furnaces (or on a representative furnace as determined by the OAQ during protocol review) using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.2.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

SECTION D.3

FACILITY OPERATION CONDITIONS

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

one (1) pouring/casting process, constructed prior to 1950, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled.

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

D.3.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the particulate matter (PM) from each of the pouring/casting process shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

Compliance Determination Requirements

D.3.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 48 months after the issuance of this permit, the Permittee shall perform PM testing using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.3.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

SECTION D.4

FACILITY OPERATION CONDITIONS

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

one (1) castings cooling process, constructed prior to 1950, with a maximum capacity of 6 tons of iron per hour, with emissions uncontrolled.

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

D.4.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the particulate matter (PM) from each of the castings cooling process shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

Compliance Determination Requirements

D.4.2 Testing Requirements 326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.4.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

one (1) shakeout system, constructed in 1977, identified as unit 6A, utilized for servicing the Herman and Slinger mold lines, with a maximum capacity of 6 tons of iron per hour and 30 tons of sand per hour, controlled by the north cyclone and a wet scrubber identified as CE-1A.

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

D.5.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the particulate matter (PM) from the Herman and Slinger shakeout system (unit 6A) shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

D.5.2 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 north cyclone and the wet scrubber CE-1A controlling this facility.

Compliance Determination Requirements

D.5.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 24 months after the issuance of this permit, the Permittee shall perform PM testing using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.5.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.5.4 Particulate Matter (PM)

The wet scrubber CE-1A for PM control shall be in operation at all times when the Herman and Slinger castings shakeout process (unit 6A) is in operation.

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

D.5.5 Visible Emissions Notations

- (a) Daily visible emission notations of the wet scrubber CE-1A stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

D.5.6 Parametric Monitoring

The Permittee shall monitor and record the pressure drop and flow rate of the scrubber, at least once per shift. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the wet scrubber shall be maintained within the range of 4 to 9.5 inches of water or a range established during the latest stack test. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the flow rates shall be maintained at a minimum of 75 gallons per minute or a minimum flow rate established during the latest stack test. The Compliance Response Plan for the scrubber shall contain troubleshooting contingency and response steps for when the pressure drop or flow rate readings are outside of the normal ranges for any one reading.

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

D.5.7 Scrubber Inspections

An inspection shall be performed each calendar quarter of the scrubber CE-1A controlling the Herman and Slinger castings shakeout process (unit 6A) when venting to the atmosphere. All defective scrubber parts shall be replaced.

D.5.8 Scrubber Failure

In the event that scrubber failure has been observed:

- (a) The affected process will be shut down immediately until the failed unit has been 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) 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 include a timetable for completion. 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).

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

D.5.9 Record Keeping Requirements

- (a) To document compliance with Condition D.5.5, the Permittee shall maintain records of daily visible emission notations of the scrubber stack exhaust.
- (b) To document compliance with Condition D.5.6, the Permittee shall maintain records of the pressure drop readings and flow rate readings of the scrubber.
- (c) To document compliance with Condition D.5.7, the Permittee shall maintain records of the results of the inspections required under Condition D.5.7 and the types and numbers of any parts replaced.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6 FACILITY OPERATION CONDITIONS

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

one (1) shakeout system, constructed in 1983, identified as unit 9A, utilized for servicing the Pinlift mold line, with a maximum capacity of 5 tons of iron per hour and 16 tons of sand per hour, with emissions uncontrolled;

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

D.6.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter (PM) from the Pinlift shakeout system (unit 9A) shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

D.6.2 Best Available Control Technology (BACT) [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable the metal throughput to the Pinlift shakeout system (unit 9A) shall not exceed 39,998 tons per 12 consecutive month period. Therefore the requirements of 326 IAC 8-1-6 (BACT) shall not apply.

Compliance Determination Requirements

D.6.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 24 months after the issuance of this permit, the Permittee shall perform PM testing using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.6.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

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

D.6.4 Visible Emissions Notations

- (a) Daily visible emission notations of the Pinlift shakeout system (unit 9A) stack exhausts shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

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

D.6.5 Record Keeping Requirements

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- (1) In order to document compliance with Condition D.6.5, the Permittee shall maintain records of daily visible emission notations of the control device stack exhaust.
 - (2) In order to document compliance with Condition D.6.2, the Permittee shall maintain records of the metal throughput to the Pinlift shakeout system (unit 9A).
 - (3) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.6.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.6.2 shall be submitted to the addresses listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.7 FACILITY OPERATION CONDITIONS

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

one (1) Tumbleblast shotblaster, constructed in November, 1965, identified as unit 3, with a maximum capacity of 3.5 tons of iron castings per hour, using a 6300 acfm baghouse identified as CE-4 as emissions control.

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

D.7.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the Tumbleblast shotblaster shall not exceed 0.030 grains per dry standard cubic foot of exhaust air and 5.0 tons per year.

D.7.2 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 baghouse CE-4 controlling this facility.

Compliance Determination Requirements

D.7.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days after the issuance of this permit, the Permittee shall perform PM testing of the Tumbleblast shotblaster, using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.7.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.7.4 Particulate Matter (PM)

The baghouse CE-4 for PM control shall be in operation at all times when the Tumbleblast shotblaster is in operation.

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

D.7.5 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse CE-4 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

D.7.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse CE-4 used in conjunction with the Tumbleblast shotblaster, at least once daily when the shotblaster is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.7.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Tumbleblast shotblaster when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.7.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. 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 include a timetable for completion. 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 single compartment baghouses, 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).

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

D.7.9 Record Keeping Requirements

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- (a) To document compliance with Condition D.7.5, the Permittee shall maintain records of daily visible emission notations of the baghouse CE-4 stack exhaust.
 - (b) To document compliance with Condition D.7.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Documentation of the dates vents are redirected.
 - (c) To document compliance with Condition D.7.7, the Permittee shall maintain records of the results of the inspections required under Condition D.7.7 and the dates the vents are

redirected.

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

SECTION D.8 FACILITY OPERATION CONDITIONS

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

one (1) Tableblast shotblaster, constructed in July, 1967, identified as unit 4, with a maximum capacity of 3.0 tons of iron castings per hour, using a 4500 acfm baghouse identified as CE-2 as control.

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

D.8.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the Tableblast shotblaster shall not exceed 0.037 grains per dry standard cubic foot of exhaust air and 4.3 tons per year.

D.8.2 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 baghouse CE-2 controlling this facility.

Compliance Determination Requirements

D.8.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days after the issuance of this permit, the Permittee shall perform PM testing of the Tableblast shotblaster, using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.8.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.8.4 Particulate Matter (PM)

The baghouse CE-2 for PM control shall be in operation at all times when the Tableblast shotblaster is in operation.

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

D.8.5 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse CE-2 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

D.8.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse CE-2 used in conjunction with the Tableblast shotblaster, at least once daily when the shotblaster is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.8.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Tableblast shotblaster when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.8.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. 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 include a timetable for completion. 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 single compartment baghouses, 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).

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

D.8.9 Record Keeping Requirements

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- (a) To document compliance with Condition D.8.5, the Permittee shall maintain records of daily visible emission notations of the baghouse CE-2 stack exhaust.
 - (b) To document compliance with Condition D.8.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Documentation of the dates vents are redirected.
 - (d) To document compliance with Condition D.8.7, the Permittee shall maintain records of the

- results of the inspections required under Condition D.8.7 and the dates the vents are redirected.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.9 FACILITY OPERATION CONDITIONS

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

one (1) Spinnerblast shotblaster, constructed in 1979, identified as unit 7, with a maximum capacity of 0.85 tons of iron castings per hour, using a 4500 acfm baghouse identified as CE-3 as control.

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

D.9.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the Spinnerblast shotblaster shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

D.9.2 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 baghouse CE-3 controlling this facility.

Compliance Determination Requirements

D.9.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days after the issuance of this permit, the Permittee shall perform PM testing of the Spinnerblast shotblaster, using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.9.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.9.4 Particulate Matter (PM)

The baghouse CE-3 for PM control shall be in operation at all times when the Spinnerblast shotblaster is in operation.

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

D.9.5 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse CE-3 stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

D.9.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse CE-3 used in conjunction with the Spinnerblast shotblaster, at least once daily when the shotblaster is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.9.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Spinnerblast shotblaster when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.9.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. 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 include a timetable for completion. 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 single compartment baghouses, 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).

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

D.9.9 Record Keeping Requirements

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- (a) To document compliance with Condition D.9.5, the Permittee shall maintain records of daily visible emission notations of the baghouse CE-3 stack exhaust.
 - (b) To document compliance with Condition D.9.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Documentation of the dates vents are redirected.
 - (f) To document compliance with Condition D.9.7, the Permittee shall maintain records of the

results of the inspections required under Condition D.9.7 and the dates the vents are redirected.

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

SECTION D.10

FACILITY OPERATION CONDITIONS

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

one (1) muller green sand handling system, including two sand storage bins, each with a capacity of 150 tons, identified as unit 5, constructed in August 1976, with a maximum capacity of 60 tons of sand per hour, with emissions controlled by a wet scrubber, identified as CE-1B.

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

D.10.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the muller green sand handling system shall not exceed 0.074 grains per dry standard cubic foot of exhaust air and 19.0 tons per year.

D.10.2 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 wet scrubber CE-1B controlling this facility.

Compliance Determination Requirements

D.10.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 24 months after issuance of this permit, the Permittee shall perform PM testing using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.10.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.10.4 Particulate Matter (PM)

The wet scrubber CE-1B for PM control shall be in operation at all times when the muller green sand handling system is in operation.

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

D.10.5 Visible Emissions Notations

- (a) Daily visible emission notations of the wet scrubber CE-1B stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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.

D.10.6 Scrubber Parametric Monitoring

The Permittee shall monitor and record the pressure drop and flow rate of the scrubber CE-1B, at least once per shift. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the wet scrubber shall be maintained within the range of 4 to 9.5 inches of water or a range established during the latest stack test. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the flow rates shall be maintained at a minimum of 75 gallons per minute or minimum flow rates established during the latest stack test. The Compliance Response Plan for the scrubber shall contain troubleshooting contingency and response steps for when the pressure drop or flow rate readings are outside of the normal ranges for any one reading.

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

D.10.7 Scrubber Inspections

An inspection shall be performed each calendar quarter of the scrubber controlling the muller green sand handling system when venting to the atmosphere. All defective scrubber parts shall be replaced.

D.10.8 Scrubber Failure

In the event that scrubber failure has been observed:

- (a) The affected process will be shut down immediately until the failed unit has been 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) 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 include a timetable for completion. 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).

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

D.10.9 Record Keeping Requirements

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- (a) To document compliance with Condition D.10.5, the Permittee shall maintain records of daily visible emission notations of the wet scrubber CE-1B stack exhausts.
 - (b) To document compliance with Condition D.10.6, the Permittee shall maintain records of the pressure drop readings and flow rate readings of each of the scrubbers.
 - (c) To document compliance with Condition D.10.7, the Permittee shall maintain records of the results of the inspections required under Condition D.10.7 and the types and numbers of any parts replaced.
 - (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.11

FACILITY OPERATION CONDITIONS

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

one (1) oil/shell core sand handling system, including two silos each with a capacity of 25 tons of sand, identified as unit 10A, constructed in 1977, with a maximum capacity of 2.11 tons of sand per hour, with emissions uncontrolled.

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

D.11.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the oil/shell core sand handling system shall not exceed 0.052 grains per dry standard cubic foot of exhaust air and 5.0 tons per year. In order to comply with these emissions limits, the amount of sand throughput to the oil/shell core sand handling system shall be limited to 2803.2 tons per 12 consecutive month period.

Compliance Determination Requirements

D.11.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.11.1 shall be determined by a performance test 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.11.3 Record Keeping Requirements

- (a) To document compliance with Condition D.11.1, the Permittee shall maintain records of the sand throughput to the oil/shell core sand handling system.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.11.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.11.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.12

FACILITY OPERATION CONDITIONS

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

one (1) no-bake sand handling system, identified as unit 10, located in the south yard, constructed prior to 1970, with a maximum capacity of 1.25 tons of sand per hour, with emissions uncontrolled, and consisting of the following emission units:

- (a) one (1) pneumatic air driven silo with a maximum capacity of 75 tons of sand; and
- (b) one (1) sand hopper with a maximum capacity of 15 tons of sand.

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

D.12.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the no-bake sand handling system shall not exceed 0.027 grains per dry standard cubic foot of exhaust air and 14.6 tons per year. In order to comply with these emissions limits, the amount of sand throughput to the no-bake sand handling system shall be limited to 8103 tons per 12 consecutive month period.

Compliance Determination Requirements

D.12.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.12.1 shall be determined by a performance test 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.12.3 Record Keeping Requirements

- (a) To document compliance with Condition D.12.1, the Permittee shall maintain records of the sand throughput to the no-bake sand handling system.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.12.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.12.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.13

FACILITY OPERATION CONDITIONS

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

one (1) Alphasat sand handling system, including one silo with a capacity of 50 tons of sand and one (1) storage hopper with a capacity of 10 tons, identified as unit 10B, constructed in 1976, with a maximum capacity of 5.0 tons of sand per hour, with emissions uncontrolled.

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

D.13.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the alphasat sand handling system shall not exceed 0.021 grains per dry standard cubic foot of exhaust air and 5.6 tons per year. In order to comply with these emissions limits, the amount of sand throughput to the alphasat sand handling system shall be limited to 3109.8 tons per 12 consecutive month period.

Compliance Determination Requirements

D.13.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.13.1 shall be determined by a performance test 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.13.3 Record Keeping Requirements

- (a) To document compliance with Condition D.13.1, the Permittee shall maintain records of the sand throughput to the alphasat sand handling system.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.13.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.13.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.14

FACILITY OPERATION CONDITIONS

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

one (1) magnesium treatment process for producing ductile iron, identified as unit number 22, constructed in 1977, with a maximum capacity of 6.0 tons of iron per hour, with emissions controlled with the use of the Sigmat process. The Sigmat process is essentially a box enclosure which holds the magnesium. The iron is poured into the box to react with the magnesium and smoke is unable to escape.

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

D.14.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from the magnesium treatment process shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

D.14.2 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 sigmat process controlling this facility.

Compliance Determination Requirements

D.14.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.14.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.15

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] - Metal Oxide Recovery System

- (18) One (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01. This metal oxide recovery system was installed in 2005, and has a capacity of 2.00 tons of BOF/blast furnace briquettes per hour.

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

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

D.15.1 Nonattainment Area Particulate Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(e)(2) (formerly 326 IAC 6-1-2(e)(2)), particulate matter (PM) emissions from the metal oxide recovery system, identified as RCL01, shall be limited to 0.07 grains per dry standard cubic foot of exhaust air.

D.15.2 PM and PM₁₀ Limitations [326 IAC 2-2]

- (a) The PM emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 5.70 pounds per hour, and
- (b) The PM₁₀ emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 3.42 pounds per hour.
- (c) Compliance with these PM and PM₁₀ limits renders the requirements of 326 IAC 2-2 not applicable.

D.15.3 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 metal oxide recovery system and its control device.

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

D.15.4 Particulate Control

In order to comply with Conditions D.15.1 and D.15.2, the baghouse for particulate control shall be in operation and control emissions from the metal oxide recovery system at all times that the metal oxide recovery system is in operation.

D.15.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within sixty (60) days after achieving maximum production rate, but no later than one hundred eighty (180) days after initial start up in order to demonstrate compliance with Conditions D.15.1 and D.15.2, the Permittee shall perform PM and PM₁₀ testing of the metal oxide recovery system, identified as RCL01, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.15.6 Visible Emissions Notations

-
- (a) Visible emissions notations of the metal oxide recovery system stack exhaust FS01 shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
 - (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (e) 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.15.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse controlling the metal oxide recovery system, at least once per shift when the shot blasting system is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. 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 instrument 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 at least once every six (6) months.

D.15.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the metal oxide recovery system. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.15.9 Broken or Failed Bag Detection

In the event that bag 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. 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 deviation from this permit. If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag 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).

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

D.15.10 Record Keeping Requirements

- (a) To document compliance with Condition D.15.6, the Permittee shall maintain records of visible emission notations of the metal oxide recovery system baghouse stack exhaust FS01 once per shift.
- (b) To document compliance with Condition D.15.7, the Permittee shall maintain records once per shift of the total static pressure drop.
- (c) To document compliance with Condition D.15.8, the Permittee shall maintain records of the results of the inspections required under Condition D.15.8.
- (d) To document compliance with Condition D.15.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.16

FACILITY OPERATION CONDITIONS

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

Insignificant Activities including the following:

- (a) six (6) snag grinders, constructed in 1970, identified as units 2A through 2D, using a 20,535 acfm baghouse identified as CE-5 for emissions control;
- (b) nine (9) portable grinders, constructed in 1960, identified as units 2E through 2K, with emissions uncontrolled; and
- (c) one (1) welding/grinding station, constructed in 1960, identified as unit 2L, with emissions uncontrolled.

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

D.16.1 Nonattainment Area Particulate Limitations [326 IAC 6-1-18]

Pursuant to 326 IAC 6-1-18 (Nonattainment Area Particulate Limitations), the particulate matter (PM) emissions from each of the above listed processes shall not exceed 0.023 grains per dry standard cubic foot of exhaust air and 3.0 tons per year.

Compliance Determination Requirements

D.16.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However IDEM may require compliance testing if it is necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.15.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

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

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2
<input checked="" type="radio"/> 1. This is an emergency as defined in 326 IAC 2-7-1(12) CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<input checked="" type="radio"/> 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) CThe Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

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

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010
Facility: Pinlift shakeout system (unit 9A)
Parameter: metal throughput
Limit: 39,998 tons per 12 consecutive month period

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: _____

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

Part 70 Quarterly Report

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010
Facility: oil/shell core sand handling system
Parameter: sand throughput
Limit: 2803.2 tons per 12 consecutive month period

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: _____

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

Part 70 Quarterly Report

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010
Facility: no-bake sand handling system
Parameter: sand throughput
Limit: 8103 tons per 12 consecutive month period

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: _____

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

Part 70 Quarterly Report

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010
Facility: alphasat sand handling system
Parameter: sand throughput
Limit: 3109.8 tons per 12 consecutive month period

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: _____

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

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

Source Name: Accucast Technology, L.L.C.
Source Address: 220 W. Eckman Street, South Bend, Indiana 46616
Mailing Address: 220 W. Eckman Street, South Bend, Indiana 46616
Part 70 Permit No.: T141-6210-00010

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
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 Minor Source Modification and Minor Permit Modification

Source Background and Description

Source Name:	Accucast Technology, L.L.C.
Source Location:	220 W. Eckman Street, South Bend, Indiana 46614
County:	St. Joseph
SIC Code:	3321
Operation Permit No.:	T 141-6210-00010
Operation Permit Issuance Date:	February 18, 1999
Minor Source Modification No.:	141-21187-00010
Minor Permit Modification No.:	141-21443-00010
Permit Reviewer:	Mark L. Kramer

The Office of Air Quality (OAQ) has reviewed a modification application from Accucast Technology, L.L.C., formerly South Bend Acquisition Corporation, relating to the construction and operation of the following emission unit and pollution control device:

One (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01. This metal oxide recovery system was installed in 2005, and has a capacity of 2.00 tons of BOF/blast furnace briquettes per hour.

History

On April 18, 2005 Accucast Technology, L.L.C. submitted an application to the OAQ requesting to add a metal oxide recovery system to their existing plant. The metal oxide recovery system will be a pilot program to determine the feasibility of recovering zinc oxide from steel slag. The metal oxide recovery system will consist of a new, specially modified, electric induction furnace equipped with a new baghouse. The new baghouse will be used to collect oxidized zinc which will be recovered from the processing of the BOF/blast furnace briquettes.

Accucast Technology, L.L.C. (formerly South Bend Acquisition Corporation) was issued a Part 70 Operating permit on February 18, 1999. The Part 70 Operating Permit Renewal application 141-21129-00010 was received by IDEM on April 18, 2005. The first Significant Permit Modification (141-11175-00010) was issued on February 22, 2000, the first Administrative Amendment (141-12734-00010) was issued on November 14, 2000 and the first reopening (141-13477-000010) was issued on January 24, 2002.

Source Definition

The Sibley Foundry and Accucast Technology (formerly South Bend Acquisition Corporation) are two plants that are located two miles apart and have the same SIC code. Sibley owns both sources but only operates Sibley Machine. They have leased Sibley Foundry to Accucast Technology (formerly South Bend Acquisition Corporation). The lease gives up almost all control over the foundry. So in this case, common ownership did not necessarily equal common control.

OAQ had determined in the Technical Support Document for the Part 70 Operating Permit (141-6210-00010, issued February 18, 1999) that these two plants are two separate sources because they are not under common control.

In addition, the steel mill that will supply Accucast Technology with the BOF/blast furnace briquettes to be processed is a separate source from the Accucast Technology source. The two (2) plants have no contractual relationship, are not under common control, there are no common employees at the plants and the plants are separated by more than 60 miles.

Air Pollution Control Justification as an Integral Part of the Process

Accucast Technology has submitted the following justification such that the baghouse be considered as an integral part of the process:

The baghouse control device is required to capture all of the product from the proposed recovery system. Therefore, the new baghouse will serve a primary purpose other than pollution control. The system could not operate as a recovery system without the baghouse.

IDEM, OAQ has evaluated the justification and agrees that the baghouse will be considered as an integral part of the process. Therefore, the permitting level will be determined using the potential to emit after the baghouse control. Operating conditions in the proposed permit will specify that this baghouse shall operate at all times when the process is in operation.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
FS01	Metal Oxide Recovery	60.0	5.08	44,000	250

Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on April 18, 2005. Additional information was received on June 9 and August 18, 2005.

Emission Calculations

See page 1 of 1 of Appendix A of this document for detailed emissions calculations.

Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source 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.

This table reflects the PTE after controls for this modification since the baghouse has been determined by OAQ to be integral to the process. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	23.0
PM ₁₀	7.85
SO ₂	-
VOC	-
CO	-
NO _x	-

There are no HAPs emissions associated with this proposed modification.

Justification for Modification

The Part 70 Operating permit is being modified through a Part 70 Minor Source Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5(d)(3), since the potential to emit PM and PM₁₀ from the modification is greater than or equal to five (5) tons per year and less than twenty-five (25) tons per year.

The proposed operating conditions shall be incorporated into the Part 70 Operating Permit as a Minor Permit Modification (MPM 141-21443-00010) in accordance with 326 IAC 2-7-12(b)(1). The Minor Permit Modification will give the source approval to operate the proposed emission unit.

County Attainment Status

The source is located in St. Joseph County.

Pollutant	Status
PM _{2.5}	attainment
PM ₁₀	attainment
SO ₂	maintenance
NO ₂	attainment
1-Hour Ozone	attainment
8-Hour Ozone	basic nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. St. Joseph County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x

emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. See the State Rule Applicability - Entire Source section of this document.

- (b) St. Joseph County has been classified as unclassifiable or attainment for PM_{2.5}. 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 PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source Section of this document.
- (c) St. Joseph County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.

Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	320.6
PM ₁₀	225.3
SO ₂	2.53
VOC	62.9
CO	0.00
NO _x	26.5

- (a) This existing source is a major stationary PSD source because an attainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more, and it is one of the twenty-eight (28) listed source categories.
- (b) This existing source is a minor stationary source for emission offset because the nonattainment regulated pollutants (NO_x and VOC) are each emitted at a rate of less than one hundred (100) tons per year.
- (c) These emissions are based the Technical Support Document for the Part 70 Operating Permit, T-141-6210-00010 issued on February 18, 1999.

Potential to Emit of Modification After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

Pollutant	PM (tons/yr)	PM₁₀ (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NO_x (tons/yr)
Proposed Modification Metal Oxide Recovery System (RCL01)	23.0	7.85				
PSD Significant Level	25	15	40	40	100	40

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability

- (a) The federal Compliance Assurance Monitoring rule, 40 CFR Part 64, applies to certain applications for signification permit modifications received after April 20, 1998 as well as the Title V permit applications received or determined to be complete after April 20, 1998 and Title V renewal applications. Since, this modification is a minor permit modification, the requirements of the federal CAM rule do not apply to the proposed metal oxide recovery system, identified as RCL01.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this proposed modification.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Iron and Steel Foundries (40 CFR Part 63.7700, Subpart EEEEE) are not included in the permit for this proposed modification since the source, is minor for HAPs and will continue to be a minor source of HAPs even after this proposed modification.

State Rule Applicability - Entire Source

326 IAC 2-3 (Emission Offset)

The potential VOC emissions are less than one-hundred (100) tons per year. Therefore, this source is a minor source pursuant to 326 IAC 2-3, Emission Offset.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The potential PM and PM₁₀ emissions are greater than one hundred (100) tons per year. Therefore, this source, which is one of the twenty-eight (28) listed source categories, is a major source pursuant to 326 IAC 2-2, PSD. This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order for this proposed modification to be a minor modification pursuant to 326 IAC 2-7-10.5 and not be subject to the requirements of 326 IAC 2-2, the following emission limitation will be incorporated:

- (a) The PM emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 5.70 pounds per hour, equivalent to less than twenty-five (25) tons per year, and

- (b) The PM₁₀ emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 3.42 pounds per hour, equivalent to less than fifteen (15) tons per year.

326 IAC 6.5 (formerly 326 IAC 6-1) (County Specific Particulate Matter Limitations)

This source, which is not specifically listed in 326 IAC 6.5-7 (formerly 326 IAC 6-1-18) (St. Joseph County), has a potential to emit more than one hundred (100) tons per year of particulate. Therefore, the requirements of 326 IAC 6.5 are applicable to this source. Pursuant to 326 IAC 6.5-1-2(e)(2) (formerly 326 IAC 6-1-2(e)(2)), the particulate from the metal oxide recovery system shall not exceed sixteen-hundredths (0.16) grams per dry standard cubic meter (seven-hundredths (0.07) grains per dry standard cubic foot).

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less 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 requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions 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 monitoring requirements applicable to this source are as follows:

The one (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01, has applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the metal oxide recovery system stack exhaust FS01 shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. 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.
- (b) The Permittee shall record the total static pressure drop across the baghouse controlling the metal oxide recovery system, at least once per shift when the metal oxide recovery system is in operation. Unless operated under conditions for which the Preventive Maintenance Plan

specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. 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.

- (c) An inspection shall be performed each calendar quarter of all bags controlling metal oxide recovery system. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.
- (d) In the event that bag failure has been observed:
 - (1) 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.
 - (2) For single compartment baghouses, 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).
- (e) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the baghouse must operate properly to ensure compliance with 326 IAC 6-1, 326 IAC 2-2 and 326 IAC 2-7 (Part 70).

Testing Requirements

Stack testing is proposed to verify compliance with the PM, PM₁₀ and grain loading limits as well as assure that this modification is in fact a minor modification and not subject to the requirements of 326 IAC 2-2. The emissions factors were taken from an "identical" initial pilot program using identical briquettes, but the stack test was not submitted to IDEM, OAQ, nor was it approved by IDEM, OAQ.

Stack testing is proposed within sixty (60) days after achieving maximum production rate, but no later than one hundred eighty (180) days after initial start up.

Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

Change 1:

The letterhead of the permit has been revised to indicate the new Governor and the new Commissioner of IDEM. The P.O. Box in the address of the OAQ has been deleted throughout the permit and the ZIP code has been revised as follows:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, ~~P.O. Box 6015~~
Indianapolis, Indiana 46204 ~~6-6015~~

Change 2:

In addition to the proposed construction and operation of the metal oxide recovery system, the source requested that the company name be changed as well as the responsible official. IDEM, OAQ prefers the title of the person rather than the name and title. Therefore, South Bend Acquisition Corporation has been changed to Accucast Technology, L.L.C. throughout the permit. Condition A.1 has been revised.

All references to the St. Joseph County Health Department as a local agency have been deleted from the permit as the St. Joseph County Health Department is no longer a local agency.

St. Joseph County has been classified as unclassifiable or attainment for PM_{2.5}. 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 PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source section of this document.

Condition A.1 has been revised as follows:

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

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

Responsible Official: ~~Jeffrey R. Hipple, Vice President~~
Source Address: 220 W. Eckman Street, South Bend, Indiana ~~46604~~ **46614**
Mailing Address: 220 W. Eckman Street, South Bend, Indiana ~~46604~~ **46614**
SIC Code: 3321
County Location: St. Joseph
County Status: ~~Maintenance~~ **Nonattainment for 8-hour ozone**
attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules, **Minor Source under Emission Offset**
Rules
1 of 28 Source Categories

Change 3:

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 is effective March 16, 2005; therefore, Condition B.28 reflecting this rule will be incorporated into the proposed permit as follows:

B.28 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.

Change 4:

Condition A.2 has been revised to add the proposed metal oxide recovery system, Section D.15 has been added, and the insignificant activities section D.15 has been re-numbered to D.16 as follows:

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:

- (18) One (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01. This metal oxide recovery system was installed in 2005, and has a capacity of 2.00 tons of BOF/blast furnace briquettes per hour.

SECTION D.15

FACILITY OPERATION CONDITIONS

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

- (18) One (1) metal oxide recovery system, identified as RCL01, consisting of one (1) electric channel induction furnace, identified as Unit 17, and an integral baghouse, identified as RCL01, exhausting through stack FS01. This metal oxide recovery system was installed in 2005, and has a capacity of 2.00 tons of BOF/blast furnace briquettes per hour.

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

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

D.15.1 Nonattainment Area Particulate Limitations [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(e)(2) (formerly 326 IAC 6-1-2(e)(2)), particulate matter (PM) emissions from the metal oxide recovery system, identified as RCL01, shall be limited to 0.07 grains per dry standard cubic foot of exhaust air.

D.15.2 PM and PM₁₀ Limitations [326 IAC 2-2]

- (a) The PM emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 5.70 pounds per hour, and
- (b) The PM₁₀ emissions from the metal oxide recovery system, identified as RCL01, shall not exceed 3.42 pounds per hour.
- (c) Compliance with these PM and PM₁₀ limits renders the requirements of 326 IAC 2-2 not applicable.

D.15.3 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 metal oxide recovery system and its control device.

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

D.15.4 Particulate Control

In order to comply with Conditions D.15.1 and D.15.2, the baghouse for particulate control shall be in operation and control emissions from the metal oxide recovery system at all times that the metal oxide recovery system is in operation.

D.15.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within sixty (60) days after achieving maximum production rate, but no later than one hundred eighty (180) days after initial start up in order to demonstrate compliance with Conditions D.15.1 and D.15.2, the Permittee shall perform PM and PM₁₀ testing of the metal oxide recovery system, identified as RCL01, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C- Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.15.6 Visible Emissions Notations

- (a) Visible emissions notations of the metal oxide recovery system baghouse stack exhaust FS01 shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.**
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.**
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.**
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.**
- (e) 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.15.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse controlling the metal oxide recovery system, at least once per shift when the metal oxide recovery system is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. 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 instrument 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 at least once every six (6) months.

D.15.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the metal oxide recovery system. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.15.9 Broken or Failed Bag Detection

In the event that bag 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. 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 deviation from this permit. If operations continue after bag failure is observed and it will be 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.**
- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag 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).**

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

D.15.10 Record Keeping Requirements

- (a) To document compliance with Condition D.15.6, the Permittee shall maintain records of visible emission notations of the metal oxide recovery system baghouse stack exhaust FS01 once per shift.**
- (b) To document compliance with Condition D.15.7, the Permittee shall maintain records once per shift of the total static pressure drop.**

- (c) **To document compliance with Condition D.15.8, the Permittee shall maintain records of the results of the inspections required under Condition D.15.8.**
- (d) **To document compliance with Condition D.15.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.**
- (e) **All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**

Conclusion

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 141-21187-00010 and Minor Permit Modification No. 141-21443-00010.

**Appendix A: Emission Calculations
Zinc Oxide Recovery System**

**Company Name: Accucast Technology, L.L.C.
Address City IN Zip: 220 W. Eckman Street, South Bend, Indiana 46614
Part 70 Minor Permit Modification: MPM 141-21443
Plt ID: 141-00010
Reviewer: Mark L. Kramer
Application Date: April 18, 2005**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
Baghouse							
RCL01	98.0%	0.0139293	44000	N/A	N/A	5.2533	23.010

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

The PM emissions comply with the 0.07 grains/dscf requirement of 326 IAC 6-1-2(g).

PM and PM-10 Calculations

Material Feed Rate	lbs/hr	4000
Zinc Percentage	%	4.00%
Lbs zinc per hour	lbs/hr	160
Zinc Percentage of PM	%	60.00%
Total PM	lbs/hr	266.7
Percent PM100	%	98.50%
Percent PM10	%	33.60%
Control Efficiency		98.00%
PTE PM	lbs/hr	5.25
PTE PM	tons/yr	23.0
PTE PM10	lbs/yr	1.79
PTE PM10	tons/yr	7.85

Baghouse is integral to process therefore emissions are only calculated after control