



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a
**Significant Modification to a
Part 70 Operating Permit**

For Grede LLC in Henry County

Significant Source Modification No. 065-31305-00007
Significant Permit Modification No. 065-31316-00007

The Indiana Department of Environmental Management (IDEM) has received an application from Grede LLC at 2700 East Plum Street, New Castle for a significant modification of their Part 70 Operating Permit issued on March 17, 2008. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Grede LLC to make certain changes at their existing source. Grede LLC has applied to replace a core machine, capacity 1.77 tons of sand per hour and identified as Disa Core Machine (constructed in 1993) with another core machine, capacity of 4.07 tons of sand per hour and identified as West 321 (to be constructed in 2012).

The applicant intends to construct and operate new equipment that will emit air pollutants, therefore the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed or removed. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

New Castle Henry County Public Library
376 South 15th Street
New Castle, IN 4736

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number 035-31305-00007 or 065-31316-00007 in all correspondence.

Comments should be sent to:

Ghassan Shalabi
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension (4-5378)
Or dial directly: (317) 234-5378
E-mail: Ghassan Shalabi

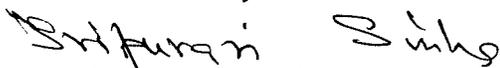
All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

For additional information about air permits and how you can participate, please see IDEM's **Guide for Citizen Participation** and **Permit Guide** on the Internet at: www.idem.in.gov.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, at the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions please contact Ghassan Shalabi of my staff at the above address.


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

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DRAFT

Tim Palmer
Grede LLC
2700 Plum Street
New Castle, IN 47362

Re: 065-31305-00007
Significant Source Modification to
Part 70 Renewal No.: T 065-23866-00007

Dear Mr. Palmer:

Grede LLC was issued a Part 70 Operating Permit Renewal on March 17, 2008 for a stationary gray iron and ductile iron foundry. An application requesting changes to this permit was received on December 22, 2011. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- One core machine, capacity of 4.07 tons of sand per hour and identified as West 321 (to be constructed in 2012).

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13 17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

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

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

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Ghassan Shalabi, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Ghassan Shalabi or extension (4-5378), or dial (317) 234-5378.

Sincerely,

DRAFT

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

Attachments:

Updated Permit
Technical Support Document
PTE Calculations

GS

cc: File – Henry County
Henry County Health Department
U.S. EPA, Region V



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

**Grede LLC
2700 East Plum Street
New Castle, Indiana 47362**

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

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

Significant Source Modification No.: 065-31305-00007	
Issued by: Tripurari P. Sinha, PhD., Section Chief Permits Branch Office of Air Quality	Issuance Date:

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Certification
Emergency Occurrence Report
Quarterly Report
Quarterly Report
Quarterly Deviation and Compliance Monitoring 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)][326 IAC 2-7-1(22)]

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

Source Address:	2700 East Plum Street, New Castle, Indiana 47362
Mailing Address:	2700 East Plum Street, New Castle, 47362
General Source Phone Number:	765-593-3214
SIC Code:	3321
County Location:	Henry
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act 1 of 28 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:

- (a) four (4) electric induction melting furnaces (ID Nos. Furnace #1, Furnace #2, Furnace #3, and Furnace #4), with Furnace #1 and #2, both constructed in 1968, each having a maximum melt rate of 5.5 tons of ductile iron per hour, and Furnace #3 and #4, both constructed in 1976, each having a maximum melt rate of 5.0 tons of ductile iron per hour, all controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);
- (b) one (1) charge handling system, constructed in 1968, with a maximum throughput of 21.0 tons of ductile iron per hour, exhausting through general ventilation;
- (c) one (1) natural gas-fired scrap preheater, constructed in 1968, with a maximum heat input of 9.84 million (MM) British thermal units (Btu) per hour, and a maximum throughput of 21.0 tons of ductile iron per hour, controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);
- (d) one (1) inoculation process, constructed in 1968, with a maximum throughput of 21.0 tons of ductile iron per hour, with particulate matter emissions controlled by a collection hood ducted to one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);
- (e) one (1) molding operation (ID No. Mold Line #1), constructed in 1993, consisting of the following:
 - (1) one (1) sand muller (ID No. Line #1 Muller) and associated feed and discharge belts, with a maximum mold sand throughput of 102.5 tons per hour, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting

through one (1) stack (ID No. S-1);

- (2) one (1) metal pouring operation (ID No. Line #1 Pouring), with a maximum throughput of 10.25 tons per hour of ductile iron, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
- (3) one (1) metal cooling operation (ID No. Line #1 Cooling), with a maximum throughput of 10.25 tons per hour of ductile iron, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
- (4) one (1) mold shakeout operation (ID No. Line #1 Shakeout) and associated shakeout conveyor, with a maximum ductile iron casting throughput of 10.25 tons per hour, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
- (5) one (1) mold punch up operation, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
- (6) one (1) casting transfer operation, consisting of the following:
 - (A) one (1) accumulating shaker, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand, exhausting through one (1) stack (ID No. S-1);
 - (B) one (1) degate shaker, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand, exhausting through one (1) stack (ID No. S-1);
 - (C) one (1) loader shaker; and
 - (D) one (1) belt conveyor, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand.
- (7) one (1) casting finishing operation, consisting of the following:
 - (A) two (2) shot blast machines (ID Nos. #1 Shot Blast and #2 Shot Blast), each with a maximum throughput of 5.125 tons per hour of ductile iron castings, both controlled by one (1) pulse jet dust collector (ID No. Collector #10) which exhausts through one (1) stack (ID No. S-10);
 - (B) four (4) grinders, each with a maximum throughput of 0.89 tons per hour of ductile iron castings, all controlled by one (1) pulse jet dust collector (ID No. Collector #10) which exhausts through one (1) stack (ID No. S-10).

Note: all the above operations which exhaust through stack ID No. S-1, are controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3).

- (f) one (1) molding operation (ID No. Mold Line #2), constructed in 1968, consisting of the following:
 - (1) one (1) sand handling operation (ID No. Line #2 Sand) with a maximum mold

- sand throughput of 107.5 tons per hour, controlled by one (1) dust collector identified as collector #5, exhausting through stack S-5. The sand handling operations including the sand muller (ID Line #2 Muller), the return sand system, the casting and sand shaker conveyors, the sand transfer belt conveyors, and the sand shaker conveyors;
- (2) one (1) metal pouring/cooling operation (ID No. Line #2 Pour/Cool), with a maximum throughput of 10.75 tons per hour of ductile iron, exhausting into the building;
 - (3) one (1) mold punchup/cooling operation (ID No. Line #2 Punchup/Cool), with a maximum throughput of 10.75 tons per hour of ductile iron, controlled by one (1) dust collector identified as collector #5, exhausting through stack S-5;
 - (4) one (1) shakeout operation (ID No. Line #2 Shakeout) with a maximum throughput of 10.75 tons per hour of ductile iron, controlled by one (1) dust collector identified as collector #2, exhausting through stack S-2;
 - (5) Two (2) shotblast machines, (ID Nos. #3 Shotblast and #4 Shotblast), each with a maximum throughput of 5.375 tons per hour of ductile iron castings, controlled by one (1) dust collector #6, exhausting through stack S-6;
 - (6) Three (3) grinders, with a total nominal throughput of 2.7 tons per hour of ductile iron castings, controlled by one (1) dust collector #6, exhausting through stack S-6;
 - (7) Four (4) grinders, with a total nominal throughput of 3.6 tons per hour of ductile iron castings, controlled by one (1) dust collector #10, exhausting through stack S-10;
- (g) one (1) core sand mixer (ID North Core Sand Mixer), constructed in 1993, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 2) for particulate matter control which exhausts indoors, and two (2) core machines (ID 103 Core Machine and 106 Core Machine), constructed in 1972 and 1974, respectively, each with a nominal throughput of 5.1 tons of sand per hour with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.
 - (h) one (1) core sand mixer (ID South Core Sand Mixer), constructed in 1993, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 3) for particulate matter control which exhausts indoors, and two (2) core machines (ID N-321 Core Machine and S-321 Core Machine), both constructed in 1976, each with a nominal throughput of 4.08 tons of sand per hour, both with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.
 - (i) one (1) core sand mixer (ID New Core Sand Mixer), constructed in 1995, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 4) for particulate matter control which exhausts indoors, and six (6) core machines (ID West 321 (to be constructed in 2012), CB-1 Core Machine (constructed in 1992), CB-2 Core Machine (constructed in 1992), CB-3 Core Machine (constructed in 1995), CB-4 Core Machine (constructed in 1995), and CB-5 Core Machine (constructed in 2000)), with the West 321 Core Machine having a nominal throughput of 4.08 tons of sand per hour and each of the remaining five (5) core machines with a nominal throughput of 1.5 tons of sand per hour, all with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.

No fluxing operation is performed at this plant.

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):

Operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per dry standard cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including pneumatic conveying as follows:

- (1) One (1) pneumatically conveyed core sand reclaim system with one (1) dust collector for particulate matter control, exhausting to the general ventilation.
[326 IAC 6-3-2]

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

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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SECTION B GENERAL CONDITIONS

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

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

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

-
- (a) This permit, T 065-23866-00007, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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

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

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

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

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

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

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

-
- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

and

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

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

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

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

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

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

Facsimile Number: 317-233-6865

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting one (1) hour or more in accordance with (b)(4) and (5) of this condition shall constitute a violation of this condition B.11 and any other applicable rules.
 - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (h) The Permittee shall include all emergencies lasting one (1) hour or more in the Quarterly Deviation and Compliance Monitoring Report unless the emergency report made pursuant to Condition B.11(b)(5) included a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T 065-23866-00007 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

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

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

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

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

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

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

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.

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

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

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

Request for renewal shall be submitted to:

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

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

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

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

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

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

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

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

B.19 Permit Revision Under Economic Incentives and Other Programs
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

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

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO₂ or NO_x under 326 IAC 21 or 326 IAC 10-4.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

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

- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2 and/or 326 IAC 2-3 (for sources located in NA areas).

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

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SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

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

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

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.
- (d) The Permittee may request an extension of a deadline to conduct testing as provided by 40 CFR 60.8, 61.13, or 63.7.
- (e) In addition to any other testing required by this permit if at any time the Permittee replaces a control device that is used to comply with an emission limitation listed in Section D, then the Permittee shall conduct a performance test no later than one hundred eighty (180) days after installation of the replacement control device in accordance with this Condition C.8.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

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

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

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

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

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

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

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on August 1, 1996.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

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

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

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal

or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

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

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

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

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

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

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

(a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

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

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

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

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165 (a)(6)(vi)(A) and/or 40 CFR 51.166 (r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
 - (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) four (4) electric induction melting furnaces (ID Nos. Furnace #1, Furnace #2, Furnace #3, and Furnace #4), with Furnace #1 and #2, both constructed in 1968, each having a maximum melt rate of 5.5 tons of ductile iron per hour, and Furnace #3 and #4, both constructed in 1976, each having a maximum melt rate of 5.0 tons of ductile iron per hour, all controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);
- (b) one (1) charge handling system, constructed in 1968, with a maximum throughput of 21.0 tons of ductile iron per hour, exhausting through general ventilation;
- (c) one (1) natural gas-fired scrap preheater, constructed in 1968, with a maximum heat input of 9.84 million (MM) British thermal units (Btu) per hour, and a maximum throughput of 21.0 tons of ductile iron per hour, controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);
- (d) one (1) inoculation process, constructed in 1968, with a maximum throughput of 21.0 tons of ductile iron per hour, with particulate matter emissions controlled by a collection hood ducted to one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);

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

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

D.1.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (e), the particulate matter (PM) emissions from the equipment listed above shall not exceed the pound per hour emission rate as given in the table below:

Emission Unit	Process Weight Rate (tons/hr)	Emission Limit (lbs/hr)
Electric Induction Furnace #1	5.5	12.85
Electric Induction Furnace #2	5.5	12.85
Electric Induction Furnace #3	5.0	12.05
Electric Induction Furnace #4	5.0	12.05
Charge Handling System	21.0	31.53
Scrap Preheater	21.0	31.53
Inoculation Process	21.0	31.53

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

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

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

Compliance Determination Requirements

D.1.2 Testing Requirements [326 IAC 2-1.1-11]

In order to determine compliance with Condition D.1.1, the Permittee shall perform PM testing on Dust Collector #7 controlling emissions from the electric induction furnaces, scrap preheater and inoculation process utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration (Grede Foundries conducted PM testing on Dust Collector #7 on October 10, 2007). Testing shall be conducted in accordance with Section C -- Performance Testing.

D.1.3 Particulate Matter (PM)

Collector #7 shall be in operation at all times the inoculation process is in operation.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) one (1) molding operation (ID No. Mold Line #1), constructed in 1993, consisting of the following:
 - (1) one (1) sand muller (ID No. Line #1 Muller) and associated feed and discharge belts, with a maximum mold sand throughput of 102.5 tons per hour, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
 - (2) one (1) metal pouring operation (ID No. Line #1 Pouring), with a maximum throughput of 10.25 tons per hour of ductile iron, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
 - (3) one (1) metal cooling operation (ID No. Line #1 Cooling), with a maximum throughput of 10.25 tons per hour of ductile iron, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
 - (4) one (1) mold shakeout operation (ID No. Line #1 Shakeout) and associated shakeout conveyor, with a maximum ductile iron casting throughput of 10.25 tons per hour, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
 - (5) one (1) mold punch up operation, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);
 - (6) one (1) casting transfer operation, consisting of the following:
 - (A) one (1) accumulating shaker, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand, exhausting through one (1) stack (ID No. S-1);
 - (B) one (1) degate shaker, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand, exhausting through one (1) stack (ID No. S-1);
 - (C) one (1) loader shaker; and
 - (D) one (1) belt conveyor, with a maximum throughput of 10.25 tons per hour of ductile iron castings and 102.5 tons per hour of sand.
 - (7) one (1) casting finishing operation, consisting of the following:
 - (A) two (2) shot blast machines (ID Nos. #1 Shot Blast and #2 Shot Blast), each with a maximum throughput of 5.125 tons per hour of ductile iron castings, both controlled by one (1) pulse jet dust collector (ID No. Collector #10) which exhausts through one (1) stack (ID No. S-10);

- (B) four (4) grinders, each with a maximum throughput of 0.89 tons per hour of ductile iron castings, all controlled by one (1) pulse jet dust collector (ID No. Collector #10) which exhausts through one (1) stack (ID No. S-10).

Note: all the above operations which exhaust through stack ID No. S-1, are controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3).

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

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

D.2.1 CO PSD BACT Requirements [326 IAC 2-2-3]

- (a) Pursuant to PSD/SSM 065-25741-00007 and the requirements of 326 IAC 2-2-3 (PSD), the Best Available Control Technology (BACT), the Mold Line 1 pouring, cooling and shakeout combined CO emissions shall not exceed 6.0 lb/ton.
- (b) The throughput of metal to Mold Line #1 shall be less than 76,572 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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

Pursuant to SPM 065-16577-00007, issued on March 11, 2005, the following limits were established:

- (a) Emissions of PM and PM-10 shall be limited as follows:
- (1) PM and PM10 emissions from the Mold Line #1 sand muller, pouring, cooling, shakeout, punch up, and casting transfer operation that exhaust through stack S-1 shall be less than 18.27 and 8.5 pounds per hour, respectively;
 - (2) PM and PM10 emissions from Shot Blast #1, Shot Blast #2, and the four grinders that exhaust through stack S-10 shall be less than 0.66 and 1.5 pound per hour, respectively;
 - (3) PM and PM10 emissions from the North Core Sand Mixer, listed in section D.4, shall be less than 1.40 and 0.54 pounds per hour, respectively; and
 - (4) PM and PM10 emissions from the South Core Sand Mixer, listed in section D.4, shall be less than 1.40 and 0.54 pounds per hour, respectively.
- (b) VOC emissions from the Mold Line #1 pouring, cooling and shakeout operations shall not exceed 1.34 pounds of VOC per ton of metal charged;
- (c) The throughput of metal to Mold Line #1 shall be less than 76,572 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

These limits will insure that PM and PM10 emissions (including the contemporaneous decrease in emissions from the replacement of the older mold line in 1993), shall be less than the PSD major modification thresholds of 25 and 15 tons per year, respectively. The metal throughput limit and the VOC emission limits will insure that VOC emissions (including the contemporaneous

decrease in emissions from the replacement of the older mold line in 1993,) from Mold Line #1 shall be less than the PSD major modification threshold of 40 tons per year. Therefore, compliance with these limits makes 326 IAC 2-2 (PSD) not applicable to the 1993 modification for PM, PM10 and VOC.

D.2.3 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (e), the particulate matter emissions from the equipment listed above shall not exceed the pound per hour emission rate as given in the table below:

Emission Unit	Process Weight Rate (tons/hr)	Emission Limit (lbs/hr)
Mold Line 1 Sand Muller	102.5	51.53
Mold Line #1 Pouring Operation	112.75	52.49
Mold Line #1 Cooling Operation	112.75	52.49
Mold Line #1 Shakeout Operation	112.75	52.49
Mold Line #1 Punch Up Operation	112.75	52.49
Casting Transfer Operation	112.75	52.49
Shot Blast #1	5.125	12.25
Shot Blast #2	5.125	12.25
Mold Line #1 Grinders	0.89 (each)	3.79 (each)

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

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

Or

Interpolation of the data for the process weight rate in excess sixty thousand (60,000) pounds per hour was determined by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

Where:

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

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

Pursuant to CP 065-2749-00007, issued on March 24, 1993, BACT for the #1 Mold Line Pouring and Shakeout operations shall be the following:

- (a) VOC emissions from the Mold Line #1 Pouring, Cooling and Shakeout operations shall not exceed 1.34 pounds of VOC per ton of metal charged;
- (b) The throughput of metal to Mold Line #1 shall be less than 76,572 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the control devices for Collector #10.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-1.1-11]

In order to determine compliance with Conditions D.2.2 and D.2.3, the Permittee shall perform PM and PM₁₀ testing on Dust Collectors #1 and #3 controlling emissions from the metal pouring, metal cooling, mold shakeout, mold punch up, casting transfer, and sand handling operations; and PM and PM₁₀ testing on Dust Collector #10 controlling emissions from the casting finishing operations utilizing methods as approved by the Commissioner. PM testing shall be conducted on Collectors #1 and #3 before October 10, 2012 and PM₁₀ testing on Collectors #1 and #3 shall be conducted before April 1, 2013; and PM and PM₁₀ testing on Collector #10 shall be conducted before April 2, 2013. These tests shall be repeated at least once every five (5) years from the date of the last valid compliance determination. Testing shall be conducted in accordance with Section C -- Performance Testing.

D.2.7 Particulate Matter (PM)

In order to comply with Conditions D.2.2 and D.2.3

- (a) Collector #1 and Collector #3 shall be in operation at all times the Mold Line #1 sand muller is in operation.
- (b) Collector #10 shall be in operation at all times the shot blast #1 is in operation.
- (c) Collector #10 shall be in operation at all times the shot blast #2 is in operation.

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

D.2.8 Visible Emissions Notation

- (a) Visible emission notations of stack S-10 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.2.9 Parametric Monitoring

The Permittee shall record the pressure drop across Dust Collector # 10 used in conjunction with Mold Line #1, at least once per day when Mold Line #1 is in operation. When for any one reading, the pressure drop across Collector #10 is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances shall be considered a violation of this permit.

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

D.2.10 Broken or Failed Bag Detection

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

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

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

D.2.11 Record Keeping Requirement

- (a) To document compliance with Conditions D.2.2 and D.2.4, the Permittee shall maintain records of the monthly metal throughputs to Mold Line #1.
- (b) To document compliance with Condition D.2.8, the Permittee shall maintain a daily record of visible emission notations of the facilities' stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.2.9, the Permittee shall maintain daily records

of the pressure drop across Dust Collector #10 controlling emissions from the shot blasts. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

D.2.12 Reporting Requirement

A quarterly summary of the information to document compliance with Conditions D.2.2 and D.2.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the responsible official as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (e) one (1) molding operation (ID No. Mold Line #2), constructed in 1968, consisting of the following:
 - (1) one (1) sand handling operation (ID No. Line #2 Sand) with a maximum mold sand throughput of 107.5 tons per hour, controlled by one (1) dust collector identified as collector #5, exhausting through stack S-5. The sand handling operations including the sand muller (ID Line #2 Muller), the return sand system, the casting and sand shaker conveyors, the sand transfer belt conveyors, and the sand shaker conveyors;
 - (2) one (1) metal pouring/cooling operation (ID No. Line #2 Pour/Cool), with a maximum throughput of 10.75 tons per hour of ductile iron, exhausting into the building;
 - (3) one (1) mold punchup/cooling operation (ID No. Line #2 Punchup/Cool), with a maximum throughput of 10.75 tons per hour of ductile iron, controlled by one (1) dust collector identified as collector #5, exhausting through stack S-5;
 - (4) one (1) shakeout operation (ID No. Line #2 Shakeout) with a maximum throughput of 10.75 tons per hour of ductile iron, controlled by one (1) dust collector identified as collector #2, exhausting through stack S-2;
 - (5) Two (2) shotblast machines, (ID Nos. #3 Shotblast and #4 Shotblast), each with a maximum throughput of 5.375 tons per hour of ductile iron castings, controlled by one (1) dust collector #6, exhausting through stack S-6;
 - (6) Three (3) grinders, with a total nominal throughput of 2.7 tons per hour of ductile iron castings, controlled by one (1) dust collector #6, exhausting through stack S-6;
 - (7) Four (4) grinders, with a total nominal throughput of 3.6 tons per hour of ductile iron castings, controlled by one (1) dust collector #10, exhausting through stack S-10;

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

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

D.3.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (e), the particulate matter emissions from the equipment listed above shall not exceed the pound per hour emission rate as given in the table below:

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Emission Unit	Process Weight Rate (tons/hr)	Emission Limit (lbs/hr)
Mold Line #2 Sand Handling	107.5	52.01
Mold Line #2 Pouring/Cooling Operation	118.25	52.98
Mold Line #2 Punchup/Cooling Operation	118.25	52.98
Mold Line #2 Shakeout Operation	118.25	52.98
Shot Blast #3	5.375	12.65
Shot Blast #4	5.375	12.65
3 grinders exhausting to S-6	2.70	7.98
4 grinders exhausting to S-10	3.6	9.67

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

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

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

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

D.3.2 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 Dust Collectors #5, #6, and #10.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-1.1-11]

In order to determine compliance with Condition D.3.1, the Permittee shall perform PM testing on Dust Collector #5 controlling emissions from the mold punchup/cooling and Dust Collector #6 controlling emissions from shot blast #3 and shot blast #4; utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration (Grede Foundries conducted PM testing on Dust Collector #5 on July 20, 2005; and on Dust Collector #6 on July 19, 2005) . Testing shall be conducted in accordance with Section C -- Performance Testing.

D.3.4 Particulate Matter (PM)

Collector #5 shall be in operation at all times the Mold Line #2 sand handling operation is in operation, in order to comply with this limit.

Collector #6 shall be in operation at all times the shot blast #3 is in operation, in order to comply with this limit.

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Collector #6 shall be in operation at all times the shot blast #4 is in operation in order to comply with this limit.

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

D.3.5 Visible Emissions Notations

- (a) Visible emission notations of the Mold Line #2 stack exhausts (ID Nos. S-5, S-6 and S-10) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.3.6 Parametric Monitoring

The Permittee shall record the pressure drop across each of the three (3) dust collectors used in conjunction with Mold Line #2 and the dust collector for the four grinders, at least once per day when Mold Line #2 is in operation when venting to the atmosphere. When for any one reading, the pressure drop across Collector #10 is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test; and Collector #5 is outside the normal range of 2.0 to 8.0 inches of water or a range established during the latest stack test; and Collector #6 is outside the normal range of 3.0 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response to Excursions and Exceedances, shall be considered a violation of this permit.

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

D.3.7 Broken or Failed Bag Detection

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

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

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

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

D.3.8 Record Keeping Requirement

- (a) To document compliance with Condition D.3.5, the Permittee shall maintain a daily record of visible emission notations of the facilities' stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain daily records of the pressure drop across Dust Collector #5 controlling emissions from the Line #2 Sand and Line #2 Punch up/Cool; Dust Collector #6 controlling emissions from Shot blast #3, Shot blast #4, and the three grinders exhausting to S-6. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) one (1) core sand mixer (ID North Core Sand Mixer), constructed in 1993, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 2) for particulate matter control which exhausts indoors, and two (2) core machines (ID 103 Core Machine and 106 Core Machine), constructed in 1972 and 1974, respectively, each with a nominal throughput of 5.1 tons of sand per hour with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.
- (g) one (1) core sand mixer (ID South Core Sand Mixer), constructed in 1993, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 3) for particulate matter control which exhausts indoors, and two (2) core machines (ID N-321 Core Machine and S-321 Core Machine), both constructed in 1976, each with a nominal throughput of 4.08 tons of sand per hour, both with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.
- (h) one (1) core sand mixer (ID New Core Sand Mixer), constructed in 1995, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 4) for particulate matter control which exhausts indoors, and six (6) core machines (ID West 321 Core Machine (to be constructed in 2012), CB-1 Core Machine (constructed in 1992), CB-2 Core Machine (constructed in 1992), CB-3 Core Machine (constructed in 1995), CB-4 Core Machine (constructed in 1995), and CB-5 Core Machine (constructed in 2000)), with the West 321 Core Machine having a nominal throughput of 4.08 tons of sand per hour and each of the remaining five (5) core machines with a nominal throughput of 1.5 tons of sand per hour, all with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.

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

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

D.4.1 PSD Minor Limit and Volatile Organic Compounds (VOC) Limit [326 IAC 2-2][326 IAC 8-1-6]

Pursuant to SPM 065-16577-00007, issued on March 11, 2005, in order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable, the following conditions shall apply:

- (a) The total resin usage for core machines CB-1 and CB-2 shall be less than 271,636 pounds of resin per 12 consecutive month period with compliance determined at the end of each month. Total DMEA usage for core machines CB-1 and CB-2 shall be less than 36,218 pounds of DMEA per 12 consecutive month period with compliance determined at the end of each month.
- (b) The total resin usage for core machines CB-3 and CB-4 shall be less than 271,636 pounds of resin per 12 consecutive month period with compliance determined at the end of each month. DMEA usage for core machines CB-3 and CB-4 shall be less than 36,218 pounds of DMEA per 12 consecutive month period with compliance determined at the end of each month.
- (c) The total resin usage for core machine CB-5 shall be less than 271,636 pounds of resin per 12 consecutive month period with compliance determined at the end of each month. DMEA usage for core machine CB-5 shall be less than 36,218 pounds of DMEA per 12 consecutive month period with compliance determined at the end of each month.

- (d) The total resin usage for the West 321 core machine shall be less than 271,636 pounds of resin per 12 consecutive month period with compliance determined at the end of each month. DMEA usage for the West 321 core machine shall be less than 36,218 pounds of DMEA per 12 consecutive month period with compliance determined at the end of each month.
- (e) The VOC emissions (not including DMEA) from core machines CB-1, CB-2, CB-3, CB-4, CB-5, and West 321 shall not exceed 0.05 pounds per pound of resin.

Compliance with these limits will render the requirements of 326 IAC 8-1-6 (BACT) not applicable. Compliance with these limits and Conditions D.2.1 and D.2.3 is also necessary to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.4.2 PSD Minor Limit [326 IAC 2-2]

Pursuant to SPM 065-16577-00007, issued on March 11, 2005, the following limits have been established:

- (a) PM and PM10 emissions from the North Core Sand Mixer shall be less than 1.40 and 0.54 pounds per hour, respectively;
- (b) PM and PM10 emissions from the South Core Sand Mixer shall be less than 1.40 and 0.54 pounds per hour, respectively.

These limits, in addition to the PM and PM10 limits in condition D.2.1(a)(1) and (2), will insure that PM and PM10 emissions (including the contemporaneous decrease in emissions from the replacement of the older mold line in 1993, per CP 065-2749-00007) do not exceed the PSD major modification thresholds of 25 and 15 tons per year, respectively.

- (c) Emissions of PM and PM-10 from the one (1) sand mixer (ID New Core Sand Mixer), installed in 1995, shall be less than 5.68 and 3.40 pounds per hour, respectively. These limits will insure that PM and PM10 emissions do not exceed the PSD major modification thresholds of 25 tons per year for PM and 15 tons per year for PM10.

Therefore the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.4.3 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (e), the particulate matter emissions from the equipment listed above shall not exceed the pound per hour emission rate as given in the table below:

Emission Unit	Process Weight Rate (tons/hr)	Emission Limit (lbs/hr)
North Core Sand Mixer	9.0	17.87
South Core Sand Mixer	9.0	17.87
New Core Sand Mixer	9.0	17.87

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

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

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

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Compliance Determination Requirements

D.4.4 VOC Emissions

Compliance with Conditions D.4.1 shall be demonstrated within 30 days of the end of each month based on the total resin and DMEA catalyst usage for the twelve (12) month period.

D.4.5 Particulate Matter (PM)

The three (3) dust collectors (ID Bin Vents 2, 3, and 4) shall be in operation and control emissions from the three (3) sand mixers at all times that the three (3) sand mixers are in operation.

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

D.4.6 Record Keeping Requirement

- (a) To document compliance with Conditions D.4.1 (a), (b), (c) and (d), the Permittee shall maintain records of the DMEA and resin usages for each of core machines CB-1, CB-2, CB-3, CB-4, CB-5, and Disa each month.
- (b) To document compliance with Condition D.4.1 (e), the Permittee shall maintain records to demonstrate there has been no change in the type of binder materials used for core machines CB-1, CB-2, CB-3, CB-4, CB-5, and Disa each month.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.7 Reporting Requirement

A quarterly summary of the information to document compliance with Conditions D.4.1 (a), (b), (c), and (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Specifically Regulated Insignificant Activities

Operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per dry standard cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including pneumatic conveying as follows:

- (1) One (1) pneumatically conveyed core sand reclaim system with one (1) dust collector for particulate matter control, exhausting to the general ventilation.
[326 IAC 6-3-2]

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

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

D.5.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the core sand reclaim system, an insignificant activity, shall not exceed 8.56 pounds per hour, when operating at a process weight rate of 6,000 pounds of sand per hour.

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

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

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

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

Compliance Determination Requirements

D.5.2 Particulate Matter (PM)

The dust collector for particulate matter control shall be in operation at all times that the core sand reclaim system is in operation.

SECTION E.1 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REQUIREMENTS [326 IAC 2-7-5(1)]

Emissions Unit Description:

(1) **Electric Induction Melt Furnaces**

four (4) electric induction melting furnaces (ID Nos. Furnace #1, Furnace #2, Furnace #3, and Furnace #4), with Furnace #1 and #2, both constructed in 1968, each having a maximum melt rate of 5.5 tons of ductile iron per hour, and Furnace #3 and #4, both constructed in 1976, each having a maximum melt rate of 5.0 tons of ductile iron per hour, all controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);

(2) **Scrap Preheater**

one (1) natural gas-fired scrap preheater, constructed in 1968, with a maximum heat input of 9.84 million (MM) British thermal units (Btu) per hour, and a maximum throughput of 21.0 tons of ductile iron per hour, controlled by one (1) dust collector (ID No. Collector #7), exhausting through one (1) stack (ID No. S-7);

(3) **Pouring Operations**

one (1) metal pouring operation (ID No. Line #1 Pouring), with a maximum throughput of 10.25 tons per hour of ductile iron, controlled by two (2) dust collectors (ID Nos. Collector #1 and Collector #3), exhausting through one (1) stack (ID No. S-1);

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

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REQUIREMENTS [326 IAC 2-7-5(1)]

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

(a) Pursuant to 40 CFR 63.7760, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the affected facilities as specified in Table 1 of 40 CFR 63, Subpart EEEEE in accordance with schedule in 40 CFR 63 Subpart EEEEE.

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

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

and

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

E.1.2 Iron and Steel Foundries Requirements [40 CFR Part 63, Subpart EEEEE]

Pursuant to CFR Part 63, Subpart EEEEE, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart EEEEE (included as Attachment A), for the electric induction melt furnaces, scrap preheater, and pouring operation:

- (1) 40 CFR 63.7680
- (2) 40 CFR 63.7681
- (3) 40 CFR 63.7682
- (4) 40 CFR 63.7683
- (5) 40 CFR 63.7690
- (6) 40 CFR 63.7700
- (7) 40 CFR 63.7710
- (8) 40 CFR 63.7720
- (9) 40 CFR 63.7730
- (10) 40 CFR 63.7731
- (11) 40 CFR 63.7732
- (12) 40 CFR 63.7733
- (13) 40 CFR 63.7734
- (14) 40 CFR 63.7735
- (15) 40 CFR 63.7736
- (16) 40 CFR 63.7740
- (17) 40 CFR 63.7741
- (18) 40 CFR 63.7742
- (19) 40 CFR 63.7743
- (20) 40 CFR 63.7744
- (21) 40 CFR 63.7745
- (22) 40 CFR 63.7746
- (23) 40 CFR 63.7747
- (24) 40 CFR 63.7750
- (25) 40 CFR 63.7751
- (26) 40 CFR 63.7753
- (27) 40 CFR 63.7760
- (28) 40 CFR 63.7761
- (29) 40 CFR 63.7765
- (30) Appendix - Table 1 to Subpart EEEEE of Part 63

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

Source Name: Grede LLC
Source Address: 2700 East Plum Street, New Castle, Indiana 47362
Mailing Address: 2700 East Plum Street, New Castle, 47362
Part 70 Permit No.: T 065-23866-00007

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Grede LLC
Source Address: 2700 East Plum Street, New Castle, Indiana 47362
Mailing Address: 2700 East Plum Street, New Castle, 47362
Part 70 Permit No.: T 065-23866-00007

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Grede LLC
Source Address: 2700 East Plum Street, New Castle, Indiana 47362
Mailing Address: 2700 East Plum Street, New Castle, 47362
Part 70 Permit No.: T 065-23866-00007
Facility: Mold Line #1
Parameter: Metal Throughput
Limit: Pursuant to CP 065-2749-00007, issued March 24, 1993, the maximum metal throughput to Mold Line #1 shall be limited to 76,572 tons per twelve (12) consecutive month period, rolled on a monthly basis

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Grede LLC - New Castle
 Source Address: 2700 East Plum Street, New Castle, Indiana 47362
 Mailing Address: 2700 East Plum Street, New Castle, Indiana 47362
 Part 70 Permit No.: T 065-23866-00007
 Facility: Core Machines CB-1, CB-2, CB-3, CB-4, CB-5, and West 321
 Parameter: Resin and DMEA catalyst usage to limit VOC emissions to less than 25 tons/year.
 Limits:

- (a) The total resin usage for core machines CB-1 and CB-2 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machines CB-1 and CB-2 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (b) The total resin usage for core machines CB-3 and CB-4 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machines CB-3 and CB-4 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (c) The total resin usage for core machine CB-5 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machine CB-5 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (d) The resin usage for the West 321 core machine shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for the West 321 core machine shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.

YEAR: _____

Month	Core Machine ID	Column 1		Column 2		Column 1 + Column 2	
		Resin Usage This Month (lbs)	DMEA Catalyst Usage This Month (lbs)	Resin Usage for Previous 11 Months (lbs)	DMEA Catalyst Usage for Previous 11 Months (lbs)	12 Month Total Resin Usage (lbs)	12 Month Total DMEA Catalyst Usage (lbs)
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	West 321						
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	West 321						
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	West 321						

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

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Grede LLC
Source Address: 2700 East Plum Street, New Castle, Indiana 47362
Mailing Address: 2700 East Plum Street, New Castle, 47362
Part 70 Permit No.: T 065-23866-00007

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Description and Location

Source Name:	Grede LLC
Source Location:	2700 East Plum Street, New Castle, IN 47362
County:	Henry
SIC Code:	3321
Operation Permit No.:	T 065-23866-00007
Operation Permit Issuance Date:	March 17, 2008
Significant Source Modification No.:	065-31305-00007
Significant Permit Modification No.:	065-31316-00007
Permit Reviewer:	Ghassan Shalabi

Existing Approvals

The source was issued Part 70 Operating Permit No. 065-23866-00007 on March 17, 2008. The source has since received the following approvals:

- (a) Administrative Amendment No. 065-26297-00007, issued on March 31, 2008;
- (b) Significant Permit Modification No. 065-25776-00007 issued on August 19, 2008; and
- (c) Administrative Amendment No. 065-29104-00007, issued on April 14, 2010.

County Attainment Status

The source is located in Henry County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

- (a) Ozone Standards

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

- (b) **PM_{2.5}**
 Henry County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**
 Henry County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, NO₂ and Pb. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a gray iron and ductile iron foundry, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD and Part 70 Permit applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	1289.4
PM ₁₀	940.7
PM _{2.5}	940.7
SO ₂	2.48
VOC	549.0
CO	746.1
NO _x	9.83
GHGs as CO _{2e}	8854
HAPs	>10
Total	>25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) These emissions are based upon Part 70 Operating Permit Renewal No. 065-23866-00007 and Significant Permit Modification No. 065-25776.

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

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Grede LLC on December 22, 2011, relating to the replacement of a core machine, capacity 1.77 tons of sand

per hour and identified as Disa Core Machine (constructed in 1993) with another core machine, capacity of 4.07 tons of sand per hour and identified as West 321 (to be constructed in 2012).

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

Increase in PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	0
PM ₁₀	0
PM _{2.5}	0
SO ₂	0
VOC	78.63
CO	0
NO _x	0
Single HAPs	0
Total HAPs	0

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because the potential to emit VOC is greater than twenty-five (25) tons per year before control. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a Significant permit modification issued pursuant to 326 IAC 2-7-12(d), since it involves changes to a PSD minor limit condition.

Permit Level Determination – PSD

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

Process / Emission Unit	Potential to Emit (ton/yr)							
	PM	PM ₁₀	PM _{2.5} *	SO ₂	VOC	CO	NO _x	GHGs
West 321	0	0	0	0	0	0	0	0
Total for Modification	0	0	0	0	0	0	0	0
Significant Level	25	15	10	40	40	100	40	75,000 CO _{2e}

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

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 Determination

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

State Rule Applicability Determination

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

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

VOC emissions from the core machine identified as West 321, shall be limited to less than 25 tons per year as follows:

- (1) The total resin usage for the West 321 core machine shall be less than 271,636 pounds of resin per twelve (12) consecutive month period with compliance determined at the end of each month. DMEA usage for the West 321 core machine shall be less than 36,218 pounds of DMEA per twelve (12) consecutive month period with compliance determined at the end of each month.
- (2) The VOC emissions (not including DMEA) from the West 321 core machine shall not exceed 0.05 pound per pound of resin.

Compliance with the above limits will render 326 IAC 2-2 and 326 IAC 8-1-6 not applicable.

Compliance Determination and Monitoring Requirements

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

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

Compliance Determination Requirements

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

Compliance Monitoring Requirements

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

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T065-23866-00007. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1: To incorporate the replacement of the DISA Core machine with the West 321 Core machine, the permit is changed as follows:

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

...

- (i) one (1) core sand mixer (ID New Core Sand Mixer), constructed in 1995, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 4) for particulate matter control which exhausts indoors, and six (6) core machines (ID **West 321 (to be constructed in 2012)** ~~Disa Core Machine (constructed in 1993)~~, CB-1 Core Machine (constructed in 1992), CB-2 Core Machine (constructed in 1992), CB-3 Core Machine (constructed in 1995), CB-4 Core Machine (constructed in 1995), and CB-5 Core Machine (constructed in 2000)), with the **West 321 Core Machine** ~~Disa Core Machine~~ having a nominal throughput of ~~1.77~~ **4.08** tons of sand per hour and each of the remaining five (5) core machines with a nominal throughput of 1.5 tons of sand per hour, all with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.

...

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

...

- (h) one (1) core sand mixer (ID New Core Sand Mixer), constructed in 1995, with a nominal throughput of 9.0 tons of sand per hour, with one (1) dust collector (ID Bin Vent 4) for particulate matter control which exhausts indoors, and six (6) core machines (ID **West 321 (to be constructed in 2012)** ~~Disa Core Machine (constructed in 1993)~~, CB-1 Core Machine (constructed in 1992), CB-2 Core Machine (constructed in 1992), CB-3 Core Machine (constructed in 1995), CB-4 Core Machine (constructed in 1995), and CB-5 Core Machine (constructed in 2000)), with the **West 321 Core Machine** ~~Disa Core Machine~~ having a nominal throughput of ~~1.77~~ **4.08** tons of sand per hour and each of the remaining five (5) core machines with a nominal throughput of 1.5 tons of sand per hour, all with a wet acid scrubber system for DMEA (a VOC) control, exhausting to the general ventilation.

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

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

D.4.1 PSD Minor Limit and Volatile Organic Compounds (VOC) Limit [326 IAC 2-2][326 IAC 8-1-6]

...

- (d) The total resin usage for the ~~DISA~~ **West 321** core machine shall be less than 271,636 pounds of resin per 12 consecutive month period with compliance determined at the end of each month. DMEA usage for the ~~DISA~~ **West 321** core machine shall be less than 36,218 pounds of DMEA per 12 consecutive month period with compliance determined at the end of each month.
- (e) The VOC emissions (not including DMEA) from core machines CB-1, CB-2, CB-3, CB-4, CB-5, and ~~DISA~~ **West 321** shall not exceed 0.05 pounds per pound of resin.

Compliance with these limits will render the requirements of 326 IAC 8-1-6 (BACT) not applicable. Compliance with these limits and Conditions D.2.1 and D.2.3 is also necessary to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.4.6 Record Keeping Requirement

- (a) To document compliance with Conditions D.4.1 (a), (b), (c) and (d), the Permittee shall maintain records of the DMEA and resin usages for each of core machines CB-1, CB-2, CB-3, CB-4, CB-5, and ~~Disa~~ **West 321** each month.
- (b) To document compliance with Condition D.4.1 (e), the Permittee shall maintain records to demonstrate there has been no change in the type of binder materials used for core machines CB-1, CB-2, CB-3, CB-4, CB-5, and ~~Disa~~ **West 321** each month.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

Part 70 Quarterly Report

Source Name: Grede LLC - New Castle
Source Address: 2700 East Plum Street, New Castle, Indiana 47362
Mailing Address: 2700 East Plum Street, New Castle, Indiana 47362
Part 70 Permit No.: T 065-23866-00007
Facility: Core Machines CB-1, CB-2, CB-3, CB-4, CB-5, and ~~Disa~~ **West 321**
Parameter: Resin and DMEA catalyst usage to limit VOC emissions to less than 25 tons/year.
Limits:

- (a) The total resin usage for core machines CB-1 and CB-2 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machines CB-1 and CB-2 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (b) The total resin usage for core machines CB-3 and CB-4 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machines CB-3 and CB-4 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (c) The total resin usage for core machine CB-5 shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for core machine CB-5 shall not exceed 36,218 pounds of DMEA per 12 consecutive month period.
- (d) The resin usage for the ~~DISA~~ **West 321** core machine shall not exceed 271,636 pounds of resin per 12 consecutive month period. DMEA usage for the ~~DISA~~ **West 321** core machine shall not exceed 36,218

pounds of DMEA per 12 consecutive month period.

YEAR: _____

Month	Core Machine ID	Column 1		Column 2		Column 1 + Column 2	
		Resin Usage This Month (lbs)	DMEA Catalyst Usage This Month (lbs)	Resin Usage for Previous 11 Months (lbs)	DMEA Catalyst Usage for Previous 11 Months (lbs)	12 Month Total Resin Usage (lbs)	12 Month Total DMEA Catalyst Usage (lbs)
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	DISA-West 321						
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	DISA-West 321						
	CB-1 & CB-2						
	CB-3 & CB-4						
	CB-5						
	DISA-West 321						

...

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 065-31305-00007 and Minor Permit Modification. The staff recommend to the Commissioner that this Part 70 Significant Source and Minor Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Ghassan Shalabi at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5378 or toll free at 1-800-451-6027 extension 4-5378.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emission Calculation
Uncontrolled VOC Emissions from West 321 Core Machine

Company Name: Grede LLC
Address: 2700 East Plum Street, New Castle, Indiana 47362
Plant ID: 065-00007
Permit #: 31305 and 31316
Reviewer: Ghassan Shalabi
Date: 1/3/2012

Machine	Capacity (tons cores/hr)	Maximum Resin Content (%)	VOC Emission Factor from Resin Evaporation (lbs/ton cores)	Maximum DMEA usage (lb DMEA/ton cores)	Uncontrolled VOC Emissions from Resin Evaporation (tons/yr)	Uncontrolled DMEA Emissions from DMEA Usage (tons/yr)	Total Uncontrolled VOC Emissions (tons/yr)	*Controlled DMEA Emissions (tons/yr)	Total VOC Emissions with controls (tons/yr)
West 321	4.08	1.2	1.2	3.2	21.44	57.19	78.63	1.14	22.59

Methodology

Uncontrolled PTE (tons/yr)=Maximum throughput (tons/hr) x Emission factor (lbs/ton) x 8760 hr/yr x 1ton/2000 lbs.

Controlled PTE (tons/yr) = Uncontrolled PTE (tons/yr) x (1- control efficiency)

Appendix A: Emissions Calculations
NG fired scrap preheater
MM BTU/HR <100

Company Name: Grede LLC
Address: 2700 East Plum Street, New Castle, Indiana 47362
Plant ID: 065-00007
Permit #: 31305 and 31316
Reviewer: Ghassan Shalabi
Date: 1/3/2012

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
9.8	1000	85.8

Emission Factor in lb/l	Greenhouse Gas		
	CO2	CH4	N2O
120,000	2.3	2.2	
Potential Emission in tons/yr	5,151	0.1	0.1
Summed Potential Emissions in tons/yr	5,151		
CO2e Total in tons/yr	5,182		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64. Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission

**Appendix A: Emission Calculations
LPG-Propane**

Company Name: Grede LLC
Address: 2700 East Plum Street, New Castle, Indiana 47362
Plant ID: 065-00007
Permit #: 31305 and 31316
Reviewer: Ghassan Shalabi
Date: 1/3/2012

Heat Input Capacity Potential Throughput SO2 Emission factor = 0.10 x S
MMBtu/hr kgals/year S = Sulfur Content = 0.18 grains/100ft³

6.00 574.43

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/k	12,500	0.2	0.9
Potential Emission in tons/yr	3,590	0.1	0.3
Summed Potential Emissions in tons/yr	3,590		
CO2e Total in tons/yr	3,672		

Methodology

The CO2 Emission Factor for Propane is 12500. The CO2 Emission Factor for Butane is 14300. Emission Factors are from AP 42 (7/08), Table 1.5-1 (SCC #1-02-010-02) Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A. Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310)

lpgpi.xls 9/95kaw

updated 7/11



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

January 10, 2012

Mr. Tim Palmer
Grede LLC.,
2700 Plum St
New Castle, IN 47362

Re: Public Notice
Grede LLC.,
Permit Level: Title V - Significant Source Modification & Title V - Significant Permit Modification
Permit Number: 065 - 31305 - 00007 & 065 - 31316 - 00007

Dear Mr. Palmer:

Enclosed is a copy of your draft Title V - Significant Source Modification & Title V - Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has submitted the draft permit package to the New Castle Henry Co Public Library 376 South 15th St, P.O. Box J in New Castle IN. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper. The OAQ has requested that the Courier Times in New Castle, In publish this notice no later than January 17, 2012.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Ghassan Shalabi, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5378 or dial (317) 234-5378.

Sincerely,
Len Pogost

Len Pogost
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter. dot 3/27/08



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ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

January 10, 2012

Courier Times
Attn: Classifieds
201 South 14th Street
New Castle, Indiana 47362

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Grede LLC., Henry County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than January 17, 2012.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Len Pogost at 800-451-6027 and ask for extension 3-2803 or dial 317-233-2803.

Sincerely,
Len Pogost

Len Pogost
Permit Branch
Office of Air Quality

Permit Level: Title V - Significant Source Modification & Title V - Significant Permit Modification
Permit Number: 065 - 31305 - 00007 & 065 - 31316 - 00007

Enclosure
PN Newspaper.dot 3/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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January 10, 2012

To: New Castle Henry Co Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Grede LLC.,
Permit Number: 065 - 31305 - 00007 & 065 - 31316 - 00007

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 03/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
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100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
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www.idem.IN.gov

Notice of Public Comment

January 10, 2012

Grede LLC.,

065 - 31305 - 00007 & 065 - 31316 - 00007

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 3/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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(317) 232-8603
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www.idem.IN.gov

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

January 10, 2012

A 30-day public comment period has been initiated for:

Permit Number: 065 - 31305 - 00007 & 065 - 31316 - 00007
Applicant Name: Grede LLC.,
Location: New Castle, Henry County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

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

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification.dot 03/23/06

Mail Code 61-53

IDEM Staff	LPOGOST 1/10/2012 Grede LLC. 065 - 31305 - 00007 & 065 - 31316 - 00007 (draft)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Tim Palmer Grede LLC. 2700 Plum St New Castle IN 47362 (Source CAATS)										
2		Jeff Hipple GM Grede LLC. 2700 E Plum St New Castle IN 47362 (RO CAATS)										
3		Lisa & Joe Hillman 2460 West 650 North Middletown IN 47356 (Affected Party)										
4		Mr. Stults 5363 W 300 N Middletown IN 47356 (Affected Party)										
5		Linda K. Bentele & Thom Horton & Brigham Robbins 8924 W. 550 N. Middletown IN 47356 (Affected Party)										
6		Ms. Nancy Fischer 5587 N 400 W Middletown IN 47356 (Affected Party)										
7		Beth & James Solomon 3888 W. 850 N. Middletown IN 47356 (Affected Party)										
8		Maynard & Mary Powell 130 N 6th St Middletown IN 47356 (Affected Party)										
9		Ms. Kim Bond 5261 N. CR 850 W. Middletown IN 47356 (Affected Party)										
10		John & Carolyn Hinton 4767 N. 450 W Middletown IN 47356 (Affected Party)										
11		Mr. & Mrs. Sam Todd 4351 N. CR 575 W. Middletown IN 47356 (Affected Party)										
12		Ferrell 2528 N. CR 500 W. Middletown IN 47356 (Affected Party)										
13		Mr & Mrs. Jim Minnick 144 N. 7th Street Middletown IN 47356 (Affected Party)										
14		Mr. Don Shaw 3322 W 400 N Middletown IN 47356 (Affected Party)										
15		Frank & Jeff McCrocklin 683 N 8th St Middletown IN 47356 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53

IDEM Staff	LPOGOST 1/10/2012 Grede LLC. 31305 (draft/final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Eunice & Barb 6047 N CR 850 W Middletown IN 47356 (Affected Party)										
2		Mr. John Shay 9294 W CR 950 N Middletown IN 47356 (Affected Party)										
3		Mrs. Beverly Price 8206 N Raider Rd Middletown IN 47356 (Affected Party)										
4		Dr. James Rybarczyk 9815 N. CR. 300 E. Muncie IN 47303 (Affected Party)										
5		Mr. Ronnie Sowers 818 North 500 West New Castle IN 47362 (Affected Party)										
6		Marilyn & Vernon Cherrett 712 North 500 West New Castle IN 47362 (Affected Party)										
7		Don Miller 3632 W. CR 100 S New Castle IN 47362 (Affected Party)										
8		Andrew Clark 735 N. 25th Street New Castle IN 47362 (Affected Party)										
9		Jeffrey & Debbie Powell 120 N 600 W New Castle IN 47362 (Affected Party)										
10		Mary & Mark Pierce 1512 N 425 W New Castle IN 47362 (Affected Party)										
11		Cronk & McCraine Residence 1441 W. CR 100 South New Castle IN 47362 (Affected Party)										
12		Mr. Troy Howell 1354 Cadiz Pk New Castle IN 47362 (Affected Party)										
13		Mr. & Mrs. Raymond Roseman 2645 S. Greensboro Pike New Castle IN 47362 (Affected Party)										
14		Mr. James Smith 4808 W SR 234 New Castle IN 47362 (Affected Party)										
15		Violet Wells 3828 West Street, Road 38 New Castle IN 47362 (Affected Party)										

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1		Jack & Walter 4199 US 36 East New Castle IN 47362 (Affected Party)										
2		Mr. & Mrs. Hersel Ankrom 903 Lincoln Avenue New Castle IN 47362 (Affected Party)										
3		Gerald & Roberta Haynes 2625 N CR 650 W New Castle IN 47362 (Affected Party)										
4		Mr. Stanley Richards 7220 W SR 38 New Castle IN 47362 (Affected Party)										
5		Mrs. Joyce Thompson 6663 E CR 2005 New Castle IN 47362 (Affected Party)										
6		Rose & Thomas Kramer 137 N CR 500 W New Castle IN 47362 (Affected Party)										
7		New Castle City Council and Mayors Office 227 N Main St New Castle IN 47362 (Local Official)										
8		Henry County Board of Commissioners 101 S. Main St New Castle IN 47362 (Local Official)										
9		Mr. Jay Cory 478 N. Clover Drive New Castle IN 47362 (Affected Party)										
10		Mr. Thomas Lee Clevenger 4005 South Franks Lane Selma IN 47383 (Affected Party)										
11		Robert Harris 6110 W. 100 S. Shirley IN 47384 (Affected Party)										
12		Marsha & David Gratner P.O. Box 8 Sulphur Springs IN 47388 (Affected Party)										
13		Katherine & Stephen Fox PO Box 300 Shirley IN 47384 (Affected Party)										
14		New Castle Henry Co Public 376 South 15th St, P.O. Box J New Castle IN 47362-1050 (Library)										
15		Louis Crowe 3725 S. Memoria Drive New Castle IN 47362 (Affected Party)										

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1		Belinda & Jeff 5562 W. CR 100 N. New Castle IN 47362 (Affected Party)										
2		Ron Elliott 3079 N. CR 650 W New Castle IN 47362 (Affected Party)										
3		Henry County Health Department 1201 Race Street, Suite 208 New Castle IN 47362-4653 (Health Department)										
4		Erin Surinak Environmental Resources Management (ERM) 11350 N Meridian Street Suite 320 Carmel IN 46032 (Consultant)										
5		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

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