INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: February 27, 2013

RE: Fritz Enterprises, Inc. / 089-32538-00465

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

Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
Toll Free (800) 451-6027
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February 27, 2013

David W. Splan, Vice President
Fritz Enterprises, Inc.
1650 W. Jefferson
Trenton, MI 48183

Re: 089-32538-00465
1st Significant Source Modification to:
Part 70 Permit (1st Renewal) No.: T089-29857-00465

Dear Mr. Splan,

Fritz Enterprises, Inc. was issued Part 70 operating permit (1st Renewal) No. T089-29587-00465 on October 11, 2011, for a stationary iron and steel recycling, iron pigging, and coke screening operation. An application to modify the source was received on November 21, 2012. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction or modification at the source:

(a) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(b) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

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 of the new emissions units is not approved until the significant permit modification has been issued.

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 Madhurima Moulik of my staff at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-0868 or toll free at 1-800-451-6027 extension 3-0868.

Sincerely,

Chrystal Wagner, Section Chief
Permits Branch
Office of Air Quality

Attachments

MDM
cc: File - Lake County
Lake County Health Department
Air Compliance and Enforcement

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Part 70 Significant Source Modification
OFFICE OF AIR QUALITY

Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.
3210 Watling Street
East Chicago, Indiana 46312

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 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.

Significant Source Modification No.: 089-32538-00465	
Issued by: Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 27, 2013

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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, A.3, and A.4 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 iron and steel recycling, iron pigging, and coke screening operation.

Source Address:	3210 Watling Street, East Chicago, Indiana 46312
General Source Phone Number:	(219) 378-0148
SIC Code:	3312
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Nonattainment NSR Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

The source, an integrated steel mill, includes the primary operation, ArcelorMittal USA, Inc. (Source ID 089-00316), at 3210 Watling Street, East Chicago, Indiana, collocated with the secondary operation, ArcelorMittal Indiana Harbor, LLC (Source ID 089-00318), at 3001 Dickey Road, East Chicago, Indiana, and onsite contractors:

	Company Name	Source ID	Operation Description
1	ArcelorMittal USA, Inc.	089-00316	Integrated steel mill
2	ArcelorMittal Indiana Harbor, LLC	089-00318	Integrated steel mill
	Onsite Contractors		
3	Beemsterboer Slag Corp.	089-00356	Slag crushing and sizing
4	Beemsterboer Slag Corp.	089-00537	Metallurgical coke screening
5	Cokenergy LLC	089-00383	Heated gas steam from coal carbonization
6	Edward C. Levy Co. Inc.	089-00339	Slag processing
7	Fritz Enterprises, Inc.	089-00465	Iron and steel recycling process and coke screening
8	Harsco Metals Americas	089-00358	Briquetting facility
9	Indiana Harbor Coke Company LP	089-00382	Heat recovery coal carbonization
10	Ironside Energy, LLC	089-00448	Industrial steam and electric power cogeneration
11	Lafarge North America	089-00458	Slag granulator and pelletizer
12	Mid-Continent Coal & Coke	089-00371	Metallurgical coke separation
13	Oil Technology, Inc.	089-00375	Used oil recycling
14	Oil Technology, Inc.	089-00369	Used oil recycling
15	Phoenix Services, LLC	089-00538	Slag and kish processing

16	Phoenix Services, LLC, dba Metal Services LLC	089-00536	Slag and kish processing
17	Tube City IMS	089-00353	Steel slab scarfer

Fritz Enterprises, Inc. is under the common control of ArcelorMittal USA, Inc. These plants are considered one major source, as defined by 326 IAC 2-7-1(22), based on this contractual control. Therefore, the term “source” in the Part 70 documents refers to both ArcelorMittal USA, Inc., and Fritz Enterprises, Inc. as one major source.

Separate Part 70 permits have been issued to ArcelorMittal USA, Inc., and Fritz Enterprises, Inc. solely for administrative purposes.

A.3 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) One (1) Iron Pigging Machine, particulate emissions controlled by ArcelorMittal USA, Inc. former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle lancing emissions resulting from operations performed by ArcelorMittal USA, Inc.

(b) One (1) non-emergency diesel engine, purchased on July 15, 1986, constructed in 1986, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, and venting to stack SV001.

(c) One (1) steel and iron sizing and classifying process, constructed in 2001, consisting of:

(1) One (1) Hammer Mill, with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere;

(2) One (1) iron and steel drop-balling process, with a maximum capacity of 112.5 tons of steel and iron per hour, and venting to the atmosphere;

(3) One (1) Wash Screen with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere;

(4) Eight (8) conveyors with a maximum throughput of 112.5 tons of steel and iron per hour;

(5) Three (3) storage piles, identified as the feed storage pile, the non-magnetic material storage pile, and the magnetic material storage pile, each with a maximum capacity of 1000 tons of steel and iron, and venting to the atmosphere; and

(6) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons of steel and iron per hour powered by one (1) diesel engine with rated capacity of 100 horsepower, and venting to the atmosphere.

(d) One (1) coke screening operation, constructed in 2003, with a maximum capacity of 110 tons of coke per hour, consisting of the following:

(1) One (1) feed hopper.

(2) One (1) double deck screen.

(3) Five (5) conveyors.

(4) One (1) diesel engine, purchased on January 5, 2003, constructed in 2003, with a maximum capacity of 134 horsepower, and exhausting to stack SV001.

(e) One (1) mobile slag screening operation, constructed in 2005, consisting of the following:

(1) One (1) mobile rotary drum screen (trommel), identified as SS-2, with a maximum capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour, and exhausting to the atmosphere.

(2) One (1) six-cylinder diesel engine associated with the rotary drum screen (SS-2), identified as SD-2, with a maximum rated capacity of 200 horsepower, and exhausting to atmosphere.

(3) Two (2) portable stacking conveyor belts with a maximum combined capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour.

(4) One (1) diesel drive engine for conveyors, identified as SD-3, purchased on June 10, 2005, with a maximum rated capacity of 45 horsepower, and exhausting to atmosphere.

(f) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(b) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

A.4 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):

(a) One (1) diesel storage tank, constructed in 2001 with a maximum capacity of 10,000 gallons. [326 IAC 8-9]

(b) One (1) diesel fuel storage tank, constructed in 2003 with a maximum capacity of 1,000 gallons. [326 IAC 8-9]

(c) Paved and unpaved roads and parking lots. [326 IAC 6.8-10][326 IAC 6-4]

(d) Three (3) material storage piles, with a total maximum throughput of 110 tons of coke per hour. [326 IAC 6.8-10] [326 IAC 6-4]

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T089-29857-00465, 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] [IC 13-17-12]

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. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

B.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 April 15 of each year to:

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

and

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

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

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

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

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

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

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

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

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

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 464-0233; fax: (219) 464-0553**.**

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.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 T089-29857-00465 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 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 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

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

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

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

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

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of twenty percent (20%) 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.2 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.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.4 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.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.

(d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.

(e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

(f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.

(g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(h) Material processing facilities shall include the following:

(1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(2) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(3) The PM_{10} stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.

(5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).

(i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(j) Material transfer limits shall be as follows:

(1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

(2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.

(3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:

(A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.

(B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).

(k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3),

326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

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

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

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

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.11 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

(a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.

(b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.

(c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

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 shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(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]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual

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

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

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

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.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]

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

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

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

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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

(1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) 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(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

(e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

(f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.

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

(4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

C.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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

a) Iron Pigging Machine operated by Fritz Enterprises, Inc. with emissions which are controlled by ArcelorMittal USA, Inc. former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle lancing emissions resulting from operations performed by ArcelorMittal USA, Inc.

(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 Lake County PM_{10} emission requirements [326 IAC 6.8-2-17]

Pursuant to 326 IAC 6.8-2-17, PM_{10} emissions from the former mold foundry baghouse (43) shall not exceed 0.011 gr/dscf and 26 lbs/hr.

D.1.2 Emission Offsets [326 IAC 2-2][326 IAC 2-3]

The pigging, pugh car lancing operation and the dekishing and debricking operations shall be conducted inside the mold foundry building as required in Part 70 Operating Permit No. T089-6577-00316, issued on March 29, 1993 to ArcelorMittal USA, Inc. The emissions from the pigging shall be captured and exhausted to the former mold foundry baghouse with particulate matter emissions not to exceed 26.0 pounds per hour and 0.011 grains per dry standard cubic foot of exhaust air. Lancing of Pugh Ladles performed by ArcelorMittal USA, Inc. shall not occur simultaneously with Pugh Ladle pigging operations performed by Fritz Enterprises, Inc.

D.1.3 Sulfur Dioxide (SO_2)[326 IAC 7-4.1-11]

Pursuant to 326 IAC 7-4.1-11(a), the SO_2 emissions from the pigging ladle facility (43) shall not exceed 0.020 lbs/ton and four (4.0) lbs/hour.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for the pigging, pugh car lancing and the dekishing and debricking operations and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

(a) The former mold foundry baghouse (43) shall be operated at all times that the Iron Pigging Machine is in operation.

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

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

D.1.6 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the former mold foundry baghouse (43) stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C – Response to Excursions and Exceedances **c**ontains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(1) The Permittee shall record the pressure drop across the baghouse used in conjunction with the former mold foundry baghouse used in conjunction with the iron pigging operation, at least once per day when the iron pigging operation is in operating. When, for any one (1) reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(2) 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 in accordance with the manufacturer's instructions but not less frequently than once per year.

(3) The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

D.1.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) For a single compartment baghouses 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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

D.1.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.6, the Permittee shall maintain records of once per day visible emission notations of the former mold foundry baghouse (43) stack exhausts when performing Iron Pigging. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).

(b) To document the compliance status with Condition D.1.7, the Permittee shall maintain once per day records of the pressure drop across the baghouse during normal operation when venting to the atmosphere.

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) non-emergency diesel engine, purchased on July 15, 1986, constructed in 1986, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, and venting to stack SV001.

(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 Emission Offset Minor Limit [326 IAC 2-3]

(a) Pursuant to F089-14058-00465, issued on August 6, 2001, and as revised in this permit, the hours of operation of the diesel engine unit 3512 shall be less than or equal to 2242 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The NO_x emissions from diesel engine unit 3512 shall be less than or equal to an emission rate of 22.3 pounds per hour.

The hours of operation limit and hourly NO_x emission rate limit is required to limit the potential to emit of nitrogen oxides (NO_x) to less than twenty-five (25) tons per twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

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

D.2.2 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1, the Permittee shall maintain records of the monthly use of diesel fuel, in gallons.

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

D.2.3 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.2.1 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, no later than thirty (30) days after the end of the quarter being reported.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(c) One (1) steel and iron sizing and classifying process, constructed in 2001, consisting of:

(1) One (1) Hammer Mill, with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere.

(2) One (1) iron and steel drop-balling process, with a maximum capacity of 112.5 tons of steel and iron per hour, and venting to the atmosphere.

(3) One (1) Wash Screen, with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere.

(4) Eight (8) conveyors with a maximum throughput of 112.5 tons of steel and iron per hour.

(5) Three (3) storage piles, identified as the feed storage pile, the non-magnetic material storage pile, and the magnetic material storage pile, each with a maximum capacity of 1000 tons, and venting to the atmosphere.

(6) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons of iron and steel per hour, powered by an associated diesel engine, with rated capacity of 100 horsepower, and venting to the atmosphere.

(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 Matter (PM) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter (PM) emissions from the hammer mill, iron and steel drop-balling process, wash screen and double deck screen shall each be limited to 0.03 grain per dry standard cubic foot of exhaust air.

Compliance Determination Requirements

D.3.2 Lake County Fugitive Particulate Matter Control Requirements [326 IAC 6.8-10]

Pursuant to 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter Control Requirements), compliance with the opacity limits specified in Condition C.5, of this permit, shall be achieved by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan (FDCP). If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

Opacity from the activities shall be determined as follows:

(a) Batch Transfer
The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

(b) Continuous Transfer
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.

(c) Wind Erosion from Storage Piles
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. These limitations may not apply during periods when application of fugitive particulate control measures is either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

(d) Wind Erosion from Exposed Areas
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.

(e) Material Transported by Truck or Rail
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the inplant transportation requirement.

(f) Material Transported by Front End Loader or Skip Hoist
Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:

(1) The first will be taken at the time of emission generation.

(2) The second will be taken five (5) seconds later.

(3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(g) Material Processing Limitations
Compliance with all opacity limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 9. Compliance with all visible emissions limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 22. Compliance with all particulate matter limitations from material processing equipments shall be determined using 40 CFR 60, Appendix A, Method 5 or 17.

(h) Pursuant to 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter Control Requirements):

The source shall keep the following documentation to show compliance with each of its control measures and control practices:

(1) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.

(2) For each application of water or chemical solution to roadways, the following shall be recorded:

(A) The name and location of the roadway controlled

(B) Application rate

(C) Time of each application

(D) Width of each application

(E) Identification of each method of application

(F) Total quantity of water or chemical used for each application

(G) For each application of chemical solution, the concentration and identity of the chemical

(H) The material data safety sheets for each chemical

(3) For application of physical or chemical control agents not covered by 326 IAC 6.8-10, the following:

(A) The name of the agent

(B) Location of application

(C) Application rate

(D) Total quantity of agent used

(E) If diluted, percent of concentration

(F) The material data safety sheets for each chemical

(4) A log recording incidents when control measures were not used and a statement of explanation.

(5) Copies of all records required by this section shall be submitted to the department within twenty (20) working days of a written request by the department

D.3.3 PM and PM_{10} Control

In order to comply with Condition D.3.1, the Permittee shall use wet suppression on an as needed basis to control emissions of PM and PM_{10} from the hammer mill, iron and steel drop-balling process, wash screen and double deck screen when these emission units are in operation. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the processed material to ensure the moisture content is greater than five (5) weight percent (%). The method for moisture content analysis shall be approved by IDEM, OAQ.

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

D.3.4 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.3, the Permittee shall maintain records of the chemical analysis of the processed materials from the steel and iron sizing and classifying process line, as needed.

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

D.3.5 Reporting Requirements

Pursuant to 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted, stating the following:

(1) The dates any required control measures were not implemented

(2) A listing of those control measures

(3) The reasons that the control measures were not implemented

(4) Any corrective action taken

These reports shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, no later than thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(34).

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(d) One (1) coke screening operation, constructed in 2003, with a maximum capacity of 110 tons of coke per hour, consisting of the following:

(1) One (1) feed hopper.

(2) One (1) double deck screen.

(3) Five (5) conveyors.

(4) One (1) diesel engine, purchased on January 5, 2003, constructed in 2003, with a maximum capacity of 134 horsepower, and exhausting to stack SV001.

(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 and Emission Offset Minor Limits [326 IAC 2-2] [326 IAC 2-3]

Pursuant to Significant Permit Modification 089-17404-00465, issued on January 13, 2004, in order to make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) not applicable, the PM and PM_{10} emissions from the hopper, the screen, and the conveyors shall not exceed the emission rates listed in the table below:

Emission Units	PM Emission Limit (lbs/hr)	PM_{10} Emission Limit (lbs/hr)
Feed Hopper	0.097	0.047
Double Deck Screen	0.485	0.231
Each Conveyor Transfer Point	0.011	0.005

Combined with the PM and PM_{10} emissions from the 134 horsepower diesel engine, the unpaved roads, and the insignificant material storage piles, the emissions from the coke screening plant are limited to less than twenty-five (25) tons per year for PM and less than fifteen (15) tons per year for PM_{10}. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) are not applicable.

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for the coke screening operation and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.4.3 PM and PM_{10} Control

In order to comply with Condition D.4.1, the Permittee shall use wet suppression on an as needed basis to control emissions of PM and PM_{10} from the feed hopper, double deck screen, conveyor transfer points, and the unpaved roads when these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2, 326 IAC 2-3, and 326 IAC 6.8-1-2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the processed material to ensure

the moisture content is greater than five (5) weight percent (%). The method for moisture content analysis shall be approved by IDEM, OAQ.

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

D.4.4 Visible Emissions Notations

(a) Visible emission notations of the exhausts from the feed hopper, double deck screen, and the conveyor transfer points 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. Section C – Response to Excursions and Exceedances **c**ontains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.4.5 Record Keeping Requirements

(a) To document the compliance status with Condition D.4.3, the Permittee shall maintain records of the chemical analysis of the processed material, as needed.

(b) To document the compliance status with Condition D.4.4, the Permittee shall maintain once per day records of visible emission notations of the hopper, the screen, and the conveyor transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).

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

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(a) One (1) mobile slag screening operation, consisting of the following:

(1) One (1) mobile rotary drum screen (trommel), identified as SS-2, constructed in 2005, with a maximum capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour, and exhausting to the atmosphere.

(2) One (1) six-cylinder diesel associated with the rotary drum screen (SS-2), identified as SD-2, purchased on June 10, 2005, with a maximum rated capacity of 200 horsepower, and exhausting to atmosphere.

(3) Two (2) portable stacking conveyor belts, constructed in 2005, with a maximum combined capacity of 200 tons per hour, and an average sustainable capacity of 125 tons per hour.

(4) One (1) diesel drive engine for conveyors, identified as SD-3, constructed in 2005, purchased on June 10, 2005, with a maximum rated capacity of 45 horsepower, and exhausting to atmosphere.

(b) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(c) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

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

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

D.5.1 NOx Minor Limit [326 IAC 2-7][326 IAC 2-3]

(a) Pursuant to Minor Source Modification 089-20905-00465, issued on May 25, 2005, and as revised in this permit, the hours of operation of each diesel engine (SD-2 and SD-3) shall be less than or equal to 6579 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total NOx emissions from diesel engines SD-2, SD-3, D-1, and D-2 shall be less than or equal to an emission rate of 7.6 pounds per hour.

(c) The total hours of operation of each diesel engines (D-1 and D-2) shall be less than or equal to 4000 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with D.5.1(a) and (b) shall ensure that the potential to emit of nitrogen oxides (NO_x) for SD-2 and SD-3 (total(remains below less than twenty-five (25) tons per twelve (12) consecutive month period, rendering 326 IAC 2-3 (Emission Offset) not applicable. Compliance with D.5.1(b) and (c) shall ensure that the potential to emit of NOx (total) for D-1 and D-2 remains below 40 tons per twelve (12) consecutive month period, rendering 326 IAC 2-3 not applicable.

D.5.2 Particulate Matter PSD Minor Limit [326 IAC 2-2]

(a) The throughput of slag for the screen PS-1 and magnetic conveyor MAG-1 shall be limited to 120,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The PM, PM-10 and PM2.5 emissions shall not exceed the following:

Emission Unit	EF PM (lb/ton)	EF PM-10 (lb/ton)	EF PM2.5 (lb/ton)
Screen PS-1	0.025	0.0087	0.0038
Conveyor MAG-1	0.003	0.0011	0.0005

Compliance with these limitations shall ensure that the PM, PM-10 and PM2.5 emissions from the screen PS-1 and conveyor MAG-1, in conjunction with the PM, PM-10, and PM2.5 emissions from diesel engines D-1 and D-2 shall be limited to less than 25, 15, and 10 tons per year, rendering 326 IAC 2-2 not applicable.

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

A Preventative Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

D.5.4 PM and PM_{10} Control

The Permittee shall use wet suppression on an as needed basis to control emissions of PM and PM_{10} from the rotary drum screen and the conveyor transfer points, and the screen PS-1 and conveyor MAG-1 transfer points when these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 6.8-1-2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the processed material to ensure the moisture content is greater than 5.0 weight percent (%). The method for moisture content analysis shall be approved by IDEM, OAQ.

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

D.5.5 Visible Emissions Notations

(a) Visible emission notations of the exhausts from the rotary drum screen, screen PS-1 and from each conveyor transfer point 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. Section C – Response to Excursions and Exceedances **c**ontains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.5.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.5.1, the Permittee shall maintain records of the total hours of operation of each of the diesel engines (SD-2 and SD-3), D-1 and D-2.

(b) To document the compliance status with Condition D.5.4, the Permittee shall maintain records of the chemical analysis of the processed material, as needed.

(c) To document the compliance status with Condition D.5.5, the Permittee shall maintain once per day records of visible emission notations of the rotary drum screen, screen PS-1 and transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).

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

D.5.7 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.5.1 and D.5.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(34).

SECTION D.6 FACILITY OPERATION CONDITIONS

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

Insignificant Activities:

(a) One (1) diesel storage tank, with a maximum capacity of 10,000 gallons. [326 IAC 8-9]

(b) One (1) diesel fuel storage tank, constructed in 2003, with a maximum capacity of 1,000 gallons. [326 IAC 8-9]

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

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

D.6.1 Record Keeping Requirements

Pursuant to 326 IAC 8-9, the Permittee must keep the following records for the two (2) diesel fuel storage tanks:

(a) The vessel identification number;

(b) The vessel dimensions; and

(c) The vessel capacity.

Records shall be maintained for the life of the vessel.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(1) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons per hour, powered by an associated diesel engine with rated capacity of 100 horsepower, and venting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, permitted in 2013, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, permitted in 2013, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1][40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the one (1) double deck screen 100 horsepower diesel engine, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports 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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, Standard of Performance for Stationary Compression Ignition Internal Combustion Engines (included as Attachment B to this permit), for the one (1) double deck screen 100 horsepower diesel engine as follows:

(1) 40 CFR 60.4200
(2) 40 CFR 60.4204(b)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207(b) and (c)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209(b)
(7) 40 CFR 60.4211(a) and (c)
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214(c)
(10) 40 CFR 60.4218
(11) 40 CFR 60.4219
(12) Table 8 to Subpart IIII (applicable portions)

E.1.3 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, Standard of Performance for Stationary Compression Ignition Internal Combustion Engines (included as Attachment B to this permit), for the diesel engines D-1 and D-2 as follows:

(1) 40 CFR 60.4200(a)
(2) 40 CFR 60.4201
(3) 40 CFR 60.4202
(4) 40 CFR 60.4204(b)
(5) 40 CFR 60.4205(b)
(6) 40 CFR 60.4206
(7) 40 CFR 60.4207(b)
(8) 40 CFR 60.4209(b)
(9) 40 CFR 60.4210(b)
(10) 40 CFR 60.4211(a) and (c)
(11) 40 CFR 60.4212
(12) 40 CFR 60.4214(c)
(13) 40 CFR 60.4218
(14) 40 CFR 60.4219

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) coke screening operation, constructed in 2003, with a maximum capacity of 110 tons of coke per hour, consisting of the following:

(1) One (1) non-emergency diesel engine, constructed in 2003, purchased on January 5, 2003, with a maximum capacity of 134 horsepower, and exhausting to stack SV001.

(b) One (1) mobile slag screening operation, constructed in 2005, consisting of the following:

(1) One (1) six-cylinder diesel engine associated with the rotary drum screen (SS-2), identified as SD-2, purchased on June 10, 2005, with a maximum rated capacity of 200 horsepower, and exhausting to atmosphere.

(2) One (1) diesel drive engine for conveyors, identified as SD-3, purchased on June 10, 2005, constructed in 2005, with a maximum rated capacity of 45 horsepower, and exhausting to atmosphere.

(c) The following diesel engines permitted in 2013:

(1) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(2) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

Under NESHAP Subpart ZZZZ, the 134 horsepower, 200 horsepower, and 45 horsepower engines are considered existing compression ignition reciprocating internal combustion engines.
(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.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1 for Stationary Reciprocating Internal Combustion Engines, identified as one (1) coke screening 134 horsepower diesel engine, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.9, the Permittee shall submit all required notifications and reports 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

E.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the one (1) coke screening 134 horsepower diesel engine, as follows:

(1) 63.6585(a) and (b)
(2) 63.6590(a)(1)(ii)
(3) 63.6595(a)(1) and (c)
(4) 63.6602
(5) 63.6605
(6) 63.6612
(7) 63.6615
(7) 63.6620
(8) 63.6625(e) and (h)
(9) 63.6630
(10) 63.6635
(11) 63.6640(a) and (b)
(12) 63.6645(a)(1)
(13) 63.6645(d), (g), and (h)
(14) 63.6650(a), (b), and (c)
(15) 63.6655(a), (d), and (e)
(16) 63.6660
(17) 63.6665
(18) 63.6670
(19) 63.6675
(20) Tables 2c, 4, 5, 7, and 8 to Subpart ZZZZ (applicable portions)

E.2.3 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the diesel engines D-1 and D-2, as follows:

(1) 40 CFR 63.6585(a) and (b)
(2) 40 CFR 63.6590(a)(2)(ii)
(3) 40 CFR 63.6595(a)(5) and (c)
(4) 40 CFR 63.6610
(5) 40 CFR 63.6615
(6) 63.6620
(7) 63.6630
(8) 63.6635
(9) 63.6640(a) and (b)
(10) 63.6645(d)
(11) 63.6650(a),(b),and (c)
(12) 63.6655(f)(1)
(13) 63.6660
(14) 63.6665
(15) 63.6670
(16) 63.6675

SECTION E.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(c) One (1) steel and iron sizing and classifying process, constructed in 2001, consisting of:

(6) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons of iron and steel per hour, powered by an associated diesel engine with rated capacity of 100 horsepower, and venting to the atmosphere.

Under NESHAP Subpart ZZZZ, the 100 horsepower engine is considered a new compression ignition reciprocating internal combustion engine.

(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.3.1 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 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1 for Stationary Reciprocating Internal Combustion Engines, identified as one (1) coke screening 134 horsepower diesel engine, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.9, the Permittee shall submit all required notifications and reports 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

E.3.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the one (1) coke screening 134 horsepower diesel engine, as follows:

(1) 63.6585(a) and (b)
(2) 63.6590(a)(2)(ii)
(3) 63.6595(c)(7)

SECTION E.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) non-emergency diesel engine, purchased on July 15, 1986, constructed in 1986, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, and venting to stack SV001.

Under NESHAP Subpart ZZZZ, the 1019 horsepower engine is considered an existing compression ignition reciprocating internal combustion engine.

(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.4.1 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 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1 for Stationary Reciprocating Internal Combustion Engines, identified as one (1) non-emergency diesel engine, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.9, the Permittee shall submit all required notifications and reports 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

E.4.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the one (1) non-emergency diesel engine, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, as follows:

(1) 63.6585(a) and (b)
(2) 63.6590(a)(1)(i)
(3) 63.6595(a)(1) and (c)
(4) 63.6600(d)
(5) 63.6604
(6) 63.6605
(7) 63.6610(a) and (d)
(6) 63.6615
(7) 63.6620
(8) 63.6625(g) and (h)
(9) 63.6630
(10) 63.6635
(11) 63.6640(a) and (b)

(12) 63.6645(a)(3)
(13) 63.6645(b), (g), and (h)
(14) 63.6650(a), (b), and (c)
(15) 63.6655(a), (d), and (e)
(16) 63.6660
(17) 63.6665
(18) 63.6670
(19) 63.6675
(20) Tables 1a, 1b, 2a, 2b, 2c, 3, 4, 5, 6, 7, and 8 to Subpart ZZZZ (applicable portions)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-29857-00465

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-29857-00465

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: _____

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

Part 70 Quarterly Report

Source Name: Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling, East Chicago, Indiana, 46312
Part 70 Permit No.: T089-29857-00465
Facility: Diesel Engine (EU 3512)
Parameter: Hours of use limitation for the 1019 horsepower diesel engine
Limit: Less than or equal to 2242 hours per twelve (12) consecutive month period with compliance determined at the end of each month

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:

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

Part 70 Quarterly Report

Source Name: Fritz Enterprises, Inc.- a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling, East Chicago, Indiana, 46312
Part 70 Permit No.: T089-29857-00465
Facility: Diesel Engine
Parameter: Hours of use limitation total for diesel engines (SD-2 and SD-3)
Limit: Less than or equal to 6579 hours per twelve (12) consecutive month period with compliance determined at the end of each month

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:

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

Part 70 Quarterly Report

Source Name: Fritz Enterprises, Inc.- a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling, East Chicago, Indiana, 46312
Part 70 Permit No.: T089-29857-00465
Facility: Diesel Engines D-1 and D-2
Parameter: Hours of operation
Limit: Less than or equal to 4000 hours (each) per twelve (12) consecutive month period with compliance determined at the end of each month

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:

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

Part 70 Quarterly Report

Source Name: Fritz Enterprises, Inc.- a contractor of ArcelorMittal USA, Inc.
Source Address: 3210 Watling, East Chicago, Indiana, 46312
Part 70 Permit No.: T089-29857-00465
Facility: Screen PS-1 and conveyor MAG-1
Parameter: Slag throughput
Limit: Less than 120,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Fritz Enterprises, Inc. - a contractor of ArcellorMittal USA, Inc.
Source Address: 3210 Watling Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-29857-00465

Months: _____ to Year: _____

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

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: _____

Attachment A
to Part 70 Operating Permit Renewal No. T089-29857-00465

FUGITIVE DUST CONTROL PLAN

FRITZ ENTERPRISES, INC.
A contractor of ArcelorMittal USA, Inc.

3210 Watling Street, MS #2-350
East Chicago, Indiana 46312

I. INTRODUCTION

The following Control Plan is designed to reduce uncontrolled fugitive dust from unpaved roadways (travel areas), material storage piles, processing operations and material transfer activities.

This Plan is in effect on a year-round basis to reduce uncontrolled fugitive dust. The site supervisor is responsible for implementing the control methods, as required, at Fritz Enterprises operations.

II. FACILITY INFORMATION

The following is the name and mailing address of the facility at the Mittal Indiana Harbor Steel Plant:

Fritz Enterprises, Inc.
3210 Watling Street
East Chicago, IN 46312

Fritz is a privately held corporation. Mr. Raymond Fritz (Sr. Vice President), or his designee will provide direction and oversight regarding the execution of this Control Plan. All related correspondence should be mailed to Mr. Fritz at the following address:

Fritz Enterprises, Inc.
1850 West Jefferson
Trenton, MI 48183

Telephone: (734) 362-3200
Facsimile: (734) 362-3250

III. PROCESS DESCRIPTION

Fritz operates four (4) processes at ArcelorMittal USA, Inc., namely:

- Iron Pigging, for which emissions are controlled with a ArcelorMittal-owned baghouse;
- Iron & Steel Sizing/Classification, including a diesel-driven hammermill, drop-balling process, wash screens and conveyors;
- Coke Screening, using a double-deck screen;
- Mobile Rotary Drum (Trommel) Screening

Materials processed include slags, iron and metallurgical coke. Processing includes size reduction, screening, washing and stockpiling. Material transfers are by mobile equipment (front end loaders) or conveyors. The attached Process Flow Diagram depicts the operations.

IV. GENERAL FUGITIVE EMISSIONS SOURCES

Visible emissions from any paved or unpaved area shall not exceed 10-percent opacity as averaged over any consecutive 6-minute period. All visible emission observations shall be determined in accordance with 326 IAC 6-1-11(d).

Paved Roads and Parking Lots

The roads leading to the Fritz operations are paved and maintained by ArcelorMittal USA, Inc. Fugitive dust from paved roads and parking lots is controlled by flushing with water. Flushing is performed, on an as-needed basis, to maintain fugitive particulate emissions below the acceptable opacity specified by 326 IAC 6-1-11, subsection (e)(3)(F).

Unpaved Roads and Traffic Areas

The Fritz processing areas are not paved and therefore require the periodic use of a water sprays to ensure that the average instantaneous opacity of fugitive particulate emissions does not exceed 10%, pursuant to 326 IAC 6-1-11, subsection (3)(8). As required, the area is treated with water to control the particulate emissions associated with car and equipment traffic in the processing and storage areas.

Treatment of unpaved areas is delayed when:

- 0.1 or more inches of rain have accumulated during the 24-hour period prior to the scheduled treatment, or
- Unpaved areas are saturated with water such that additional water cannot be accepted by the surface, or
- Unpaved areas are frozen or covered by ice, snow, or standing water, or
- The area is closed or abandoned, or
- It is raining at the time of the scheduled treatment.

V. SPECIFIC FUGITIVE EMISSION SOURCES

The following is a list of the process operations that may result in the generation of particulate emissions:

- Material handling activities at the raw material storage piles,
- Crane drop-balling to reduce material size,
- Hammer mill operations to reduce material size,
- Operation of the diesel engine to drive the hammer mill,
- Wash screen operations,
- Material transfer on the conveyors,
- Material handling activities at the product storage piles,
- Coke screening on double-deck screens, and
- Mobile screening through the trommel (rotary) screens.

Refer to the Part 70 Operating Permit No. 089-20315-00465 (issued 9/8/2006), for a more detailed description of the process emission sources and calculations of the potential facility emissions.

VI. CONTROL MEASURES

The diesel drive for the hammer mill is not a significant source of fugitive particulate emissions. As such, the only applicable control measure will be to limit the unit operation to 1,600 hours per year. With regard to the remaining process operations, wet dust suppression will be used as the primary control measure. As required, Fritz personnel will implement wet dust suppression by using a water cannon at the material storage piles, drop-balling area, hammer mill, wash screen, coke screen and rotary drum screen.

The site supervisor will determine the applicability of control measures on a day-to-day basis, primarily dependent on weather conditions. As required, dust suppression will be implemented in the morning, prior to beginning process operations. Fritz personnel will also be instructed to remain aware of potential changes throughout the day (i.e. drying, wind) that may require application, or reapplication of wet dust suppression.

VII. SCHEDULE

This Control Plan is in effect during all days of operation at the Fritz facilities. Any modification of this Control Plan, as warranted by process changes, will require submission to IDEM for approval prior to implementation.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the Technical Support Document (TSD) for a
Significant Source and Significant Permit Modification

Source Background and Description

Source Name:	**Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.**
Source Location:	**3210 Watling Street, East Chicago, Indiana 46312**
County:	**Lake**
SIC Code:	**3312**
Significant Source Modification No.:	**089-32538-00465**
Significant Permit Modification No.:	**089-32562-00465**
Permit Reviewer:	**Madhurima Moulik**

Public Notice Information

On January 23, 2013, the Office of Air Quality (OAQ) had a notice published in the Post Tribune and the Times in Merrillville and Munster, Indiana, stating that Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc. had applied for a Part 70 Significant Source Modification and Significant Permit Modification Nos. 089-32538-00465 and 089-32562-00465. The notice also stated that OAQ proposed to issue a Part 70 Significant Source and Significant Permit Modification and provided information on how the public could review the proposed permits and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not these permits should be issued as proposed.

OAQ received comments from the following:

o Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.

The comments have been summarized and the responses have been detailed below (**bold** to show additions and ~~strikethrough~~ to show deletions).

Comments from Fritz Enterprises, Inc.

Comment No. 1:

There is a difference between the permit requirement for pressure drop instrument calibration for the Pugh Ladle Lancing baghouse in ArcelorMittal USA, Inc. permit No. T089-29993-000316 and the calibration requirement included in Condition D.1.7 for the same baghouse (controlling the iron pigging operation at Fritz Enterprises, Inc., exhausting to stack no. 43) in Fritz Enterprise, Inc.'s Part 70 administrative permit no. T089-29857-00465. The Permittee requests that the frequency in Section D.1.7(2) be changed to once every twelve (12) months instead of once in six (6) months.

Response:

Condition D.1.7 has been modified as follows:

D.1.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(1) The Permittee shall record the pressure drop across the baghouse used in conjunction with the former mold foundry baghouse used in conjunction with the iron pigging operation, at least once per day when the iron pigging operation is in operating. When, for any one (1) reading, the pressure drop across the baghouse is outside the normal

range of 2.0 and 8.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

(2) ~~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.~~
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 in accordance with the manufacturer's instructions but not less frequently than once per year.

(3) The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).

Other Changes

Change No. 1:

The contact infomation for IDEM Northwest Regional Office has been updated as follows:

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: ~~(219) 757-0265; fax: (219) 757-0267~~
(219) 464-0233; fax: (219) 464-0553.

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:	Fritz Enterprises, Inc. - a contractor of ArcelorMittal USA, Inc.
Source Location:	3210 Watling Street, East Chicago 46312
County:	Lake
SIC Code:	3312
Permit Renewal No.:	T089-29857-00465
Significant Source Modification No.:	089-32538-00465
Significant Permit Modification No.:	089-32562-00465
Permit Reviewer:	Madhurima Moulik

Source Definition

The source, an integrated steel mill, includes the primary operation, ArcelorMittal USA, Inc. (Source ID 089-00316), at 3210 Watling Street, East Chicago, Indiana, collocated with the secondary operation, ArcelorMittal Indiana Harbor, LLC (Source ID 089-00318), at 3001 Dickey Road, East Chicago, Indiana, and onsite contractors:

	Company Name	Source ID	Operation Description
1	ArcelorMittal USA, Inc.	089-00316	Integrated steel mill
2	ArcelorMittal Indiana Harbor, LLC	089-00318	Integrated steel mill
	Onsite Contractors		
3	Beemsterboer Slag Corp.	089-00356	Slag crushing and sizing
4	Beemsterboer Slag Corp.	089-00537	Metallurgical coke screening
5	Cokenergy LLC	089-00383	Heated gas steam from coal carbonization
6	Edward C. Levy Co. Inc.	089-00339	Slag processing
7	Fritz Enterprises, Inc.	089-00465	Iron and steel recycling process and coke screening
8	Harsco Metals Americas	089-00358	Briquetting facility
9	Indiana Harbor Coke Company LP	089-00382	Heat recovery coal carbonization
10	Ironside Energy, LLC	089-00448	Industrial steam and electric power cogeneration
11	Lafarge North America	089-00458	Slag granulator and pelletizer
12	Mid-Continent Coal & Coke	089-00371	Metallurgical coke separation
13	Oil Technology, Inc.	089-00375	Used oil recycling
14	Oil Technology, Inc.	089-00369	Used oil recycling
15	Phoenix Services, LLC	089-00538	Slag and kish processing
16	Phoenix Services, LLC, dba Metal Services LLC	089-00536	Slag and kish processing
17	Tube City IMS	089-00353	Steel slab scarfer

Fritz Enterprises, Inc. is under the common control of ArcelorMittal USA, Inc. These plants are considered one major source, as defined by 326 IAC 2-7-1(22), based on this contractual control. Therefore, the term "source" in the Part 70 documents refers to both ArcelorMittal USA, Inc., Indiana Harbor East and Fritz Enterprises, Inc. as one major source.

Separate Part 70 permits have been issued to ArcelorMittal USA, Inc., Indiana Harbor East and Fritz Enterprises, Inc. solely for administrative purposes.

Existing Approvals

The source was issued Part 70 Operating Permit (Renewal) No. T089-29857-00465 issued on October 11, 2011.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O_3	Attainment effective May 11, 2010, for the 8-hour ozone standard.[1]
PM_{10}	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. **Effective July 20, 2012, U.S. EPA has designated Lake County as nonattainment under the 8-hr ozone standard.**
Effective February 6, 2012, Lake County has been re-designated to attainment for $PM_{2.5}$.

(a) Ozone Standards
U.S. EPA, in the Federal Register Notice 77 FR 112 dated June 11, 2012, has designated Lake County as nonattainment for ozone. On August 1, 2012, the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective on August 9, 2012. IDEM does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against U.S. EPA in the US Court of Appeals for the DC Circuit on July 19, 2012. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NO_x emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.

(b) $PM_{2.5}$
Lake 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 SO_2 emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

Fugitive Emissions

Since this source is classified as an integrated steel mill, it is considered one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status

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

Pollutant	Emissions (tons/year)
PM	Greater than 100
PM10	Greater than 100
PM2.5	Greater than 100
SO_2	Greater than 100
VOC	Greater than 100
CO	Greater than 100
CO2e	Greater than 100,000
NO_x	Greater than 100
Single HAP	Greater than 10
Total HAP	Greater than 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(gg)(1).

(b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because VOC and NOx, precursors to ozone, a nonattainment regulated pollutant, are emitted at a rate of 100 tons per year or more.

(c) These emissions are based upon the Technical support Document for the Part 70 permit No. T089-6577-00316 for ArcelorMittal USA, LLC.

(d) 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 Fritz Enterprises, Inc. on November 20, 2012, relating to the installation of a screen and conveyor. The following is a list of the proposed emission units and pollution control devices:

(a) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(b) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

Enforcement Issues

There are no pending enforcement actions related to this modification.

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	40.34
PM_{10}	16.43
$PM_{2.5}$	9.07
SO_2	3.31
VOC	4.05
CO	10.77
NO_X	50.41
Single HAPs	Negligible
Total HAPs	Negligible

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

This modification will be processed as a significant source modification subject to 326 IAC 2-7-10.5(g) since the modification has potential to emit of PM and NOx of greater than 25 tons per year each. 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) because pursuant to 326 IAC 2-7-12(b)(1)(C), a minor permit modification is not appropriate for a modification that includes a case-by-case determination of an emission limitation. The Permittee has requested a throughput limitation in order to limit PM emissions below 25 tons per year, making 326 IAC 2-2 not applicable.

Permit Level Determination – PSD or Emission Offset or Nonattainment NSR

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

	Potential to Emit (ton/yr)					
Process / Emission Unit	**PM**	**PM10/PM2.5**	**SO_2**	**VOC**	**CO**	**NO_X**
Screen PS-1 and magnetic separator/conveyor	16.8	12.88/5.88	---	---	---	---
Diesel Engine D-1	1.62	1.62/1.62	1.51	1.85	4.92	10.42
Diesel Engine D-2	1.93	1.93/1.93	1.8	2.2	5.85	12.60
Total for Modification	20.35	9.43/6.13	3.31	4.05	10.77	23.02
Significant Level	25	15/10	40	40	100	40

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

(b) This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability Determination

NSPS:

(a) The proposed diesel engines D-1 and D-2 are subject to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII), which is incorporated by reference as 326 IAC 12. The units subject to this rule include the following:

(1) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(2) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

Nonapplicable portions of the NSPS will not be included in the permit. The diesel engines D-1 and D-2 are subject to the following portions of Subpart IIII

(1) 40 CFR 60.4200(a)
(2) 40 CFR 60.4201
(3) 40 CFR 60.4202
(4) 40 CFR 60.4204(b)
(5) 40 CFR 60.4205(b)

(6) 40 CFR 60.4206
(7) 40 CFR 60.4207(b)
(8) 40 CFR 60.4209(b)
(9) 40 CFR 60.4210(b)
(10) 40 CFR 60.4211(a) and (c)
(11) 40 CFR 60.4212
(12) 40 CFR 60.4214(c)
(13) 40 CFR 60.4218
(14) 40 CFR 60.4219

NESHAP:

(b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, Subpart ZZZZ are included in the permit for the the proposed diesel engines D-1 and D-2. These engines are existing stationary compression ignition reciprocating internal combustion engines located at a major source of HAP emissions and are not being tested at a test cell/stand.

The two engines D-1 and D-2 are subject to the following portions of Subpart ZZZZ:

(1) 40 CFR 63.6585(a) and (b)
(2) 40 CFR 63.6590(a)(2)(ii)
(3) 40 CFR 63.6595(a)(5) and (c)
(4) 40 CFR 63.6610
(5) 40 CFR 63.6615
(6) 63.6620
(7) 63.6630
(8) 63.6635
(9) 63.6640(a) and (b)
(10) 63.6645(d)
(11) 63.6650(a),(b),and (c)
(12) 63.6655(f)(1)
(13) 63.6660
(14) 63.6665
(15) 63.6670
(16) 63.6675

(d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each new or modified pollutant-specific emission unit that meets the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

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

None of the proposed emission units is equipped with a control devices.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the proposed units as part of this modification.

State Rule Applicability Determination

326 IAC 2-2 and 2-3 (PSD and Emission Offset)
In order to render 326 IAC 2-2 and 326 IAC 2-3 not applicable, the following shall apply:

The throughput of material for screen PS-1 and magnetic conveyor MAG-1 shall be limited to 120,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The PM, PM-10 and PM2.5 emissions shall not exceed the following:

Emission Unit	EF PM (lb/ton)	EF PM-10 (lb/ton)	EF PM2.5 (lb/ton)
Screen PS-1	0.025	0.0087	0.0038
Conveyor MAG-1	0.003	0.0011	0.0005

(a) The hours of operation of the diesel engines D-1 and D-2 shall each be limited to 4000 hours per twelve consecutive month period, with compliance determined at the end of each month.

Compliance with these limitations shall ensure that the PM, PM-10, and PM2.5 emissions are limited to less than twenty-five (25) tons, fifteen (15) tons, and ten (10) tons per twelve (12) consecutive month period, and less than forty (40) tons per year for NOx emissions from D-1 and D-2, rendering 326 IAC 2-2 and 326 IAC 2-3 not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
Pursuant to 326 IAC 2-4.1-1(b)(2), the requirements of 326 IAC 2-4.1-1 do not apply to a major source specifically regulated, or exempt from regulation, by a standard issued pursuant to Section 112(d), 112(h), or 112(j) of the CAA. The diesel engines D-1 and D-2 are subject to 40 CFR 63, Subpart ZZZZ, and are therefore exempt.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter (PM) emissions from the proposed screen PS-1 and magnetic conveyor MAG-1 shall each be limited to 0.03 grain per dry standard cubic foot of exhaust air.

Compliance Determination and Monitoring Requirements

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

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

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

The Permittee shall use wet suppression on an as needed basis to control emissions of PM and PM_{10} from the screen PS-1 and conveyor MAG-1 transfer points when these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 6.8-1-2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the processed material to ensure the moisture content is greater than 5.0 weight percent (%). The method for moisture content analysis shall be approved by IDEM, OAQ.

The compliance monitoring requirements applicable to this modification are as follows:

Visible emissions notations are required for the proposed screen PS-1 and the magnetic conveyor (MAG-1) transfer points.

These monitoring conditions are necessary because to ensure compliance with 326 IAC 6.8 and 326 IAC 2-2.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T089-29857-00465. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

(a) To update the nonattainment status of Lake County, Section A.1 has been modified.
(b) Section A.2 – Part 70 Source Determination has been updated.
(c) The proposed screen, magnetic conveyor and diesel engines have been added to the facility description section A.3.
(d) The facility description section of D.5 has been modified to include the proposed screen and magnetic conveyor.
(e) Condition D.5.1 – Part 70 NOx permit limit has been modified to include emissions limitations under 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset).
(f) Condition D.5.2 - Particulate Matter PSD Minor Limit [326 IAC 2-2] has been added to include throughput limitations for the proposed screen PS-1 and magnetic conveyor MAG-1.
(g) Condition D.5.3 (now D.5.4) – PM and PM-10 Control has been modified to include particulate matter control measures for the proposed screen and conveyor transfer points.
(h) Condition D.5.4 (now D.5.5) – Visible Emissions Notations has been modified in include the requirements for the proposed screen and conveyor points.
(i) Condition D.5.5 (now D.5.6) – Recordkeeping Requirements, and D.5.6 (now D.5.7) – Reporting Requirements have been modified to include recordkeeping and reporting requirements for the new screen PS-1, the conveyor MAG-1 and the diesel engines D-1 and D-2.
(j) Facility description section of E.1 (for NSPS Subpart IIII) has been modified to include the diesel engines D-1 and D-2.
(k) Condition E.1.3 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] has been added for D-1 and D-2.
(l) Facility description section of E.2 (for NESHAP Subpart ZZZZ) has been modified to include the diesel engines D-1 and D-2.
(m) Condition E.2.3 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ] has been added for D-1 and D-2.
(n) Quarterly report forms have been added for the annual hours of operation for D-1 and D-2, and slag throughput for screen PS-1 and conveyor MAG-1.
(o) The Table of Contents has been modified to add conditions D.5.2, E.1.3 and E.2.3 and to renumber other conditions.

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 iron and steel recycling, iron pigging, and coke screening operation.

Source Address:	3210 Watling Street, East Chicago, Indiana 46312
General Source Phone Number:	(219) 378-0148
SIC Code:	3312
County Location:	Lake
Source Location Status:	Nonattainment for **8-hour ozone** ~~$PM_{2.5}$~~ standard Attainment for all other criteria pollutants

Source Status: Part 70 Operating Permit Program
Major Source, under PSD and Nonattainment NSR
Major Source, Section 112 of the Clean Air Act
1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

~~ArcelorMittal USA, Inc., an integrated steel mill, consists of a source with on-site contractors:~~

~~(a) ArcelorMittal USA, Inc., Plant ID# 089-00316, the primary operation, is located at 3210 Watling Street, East Chicago, Indiana; and~~

~~(b) Fritz Enterprises, Inc. (Plant ID 089-00465), an on-site contractor (an iron and steel recycling process and a coke screening plant), is located at 3210 Watling Street, East Chicago, Indiana.~~

The source, an integrated steel mill, includes the primary operation, ArcelorMittal USA, Inc. (Source ID 089-00316), at 3210 Watling Street, East Chicago, Indiana, collocated with the secondary operation, ArcelorMittal Indiana Harbor, LLC (Source ID 089-00318), at 3001 Dickey Road, East Chicago, Indiana, and onsite contractors:

	Company Name	Source ID	Operation Description
1	ArcelorMittal USA, Inc.	089-00316	Integrated steel mill
2	ArcelorMittal Indiana Harbor, LLC	089-00318	Integrated steel mill
	Onsite Contractors		
3	Beemsterboer Slag Corp.	089-00356	Slag crushing and sizing
4	Beemsterboer Slag Corp.	089-00537	Metallurgical coke screening
5	Cokenergy LLC	089-00383	Heated gas steam from coal carbonization
6	Edward C. Levy Co. Inc.	089-00339	Slag processing
7	Fritz Enterprises, Inc.	089-00465	Iron and steel recycling process and coke screening
8	Harsco Metals Americas	089-00358	Briquetting facility
9	Indiana Harbor Coke Company LP	089-00382	Heat recovery coal carbonization
10	Ironside Energy, LLC	089-00448	Industrial steam and electric power cogeneration
11	Lafarge North America	089-00458	Slag granulator and pelletizer
12	Mid-Continent Coal & Coke	089-00371	Metallurgical coke separation
13	Oil Technology, Inc.	089-00375	Used oil recycling
14	Oil Technology, Inc.	089-00369	Used oil recycling
15	Phoenix Services, LLC	089-00538	Slag and kish processing
16	Phoenix Services, LLC, dba Metal Services LLC	089-00536	Slag and kish processing
17	Tube City IMS	089-00353	Steel slab scarfer

Fritz Enterprises, Inc. is under the common control of ArcelorMittal USA, Inc. These plants are considered one major source, as defined by 326 IAC 2-7-1(22), based on this contractual control. Therefore, the term “source” in the Part 70 documents refers to both ArcelorMittal USA, Inc., and Fritz Enterprises, Inc. as one major source.

Separate Part 70 permits have been issued to ArcelorMittal USA, Inc., and Fritz Enterprises, Inc. solely for administrative purposes.

A.3 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) One (1) Iron Pigging Machine, particulate emissions controlled by ArcelorMittal USA, Inc. former mold foundry baghouse exhausting through stack 43. This baghouse also controls Pugh Ladle lancing emissions resulting from operations performed by ArcelorMittal USA, Inc.

(b) One (1) non-emergency diesel engine, purchased on July 15, 1986, constructed in 1986, identified as emission unit 3512, with a maximum capacity of 1019 horsepower, and venting to stack SV001.

(c) One (1) steel and iron sizing and classifying process, constructed in 2001, consisting of:

(1) One (1) Hammer Mill, with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere;

(2) One (1) iron and steel drop-balling process, with a maximum capacity of 112.5 tons of steel and iron per hour, and venting to the atmosphere;

(3) One (1) Wash Screen with a maximum capacity of 75 tons of steel and iron per hour, and venting to the atmosphere;

(4) Eight (8) conveyors with a maximum throughput of 112.5 tons of steel and iron per hour;

(5) Three (3) storage piles, identified as the feed storage pile, the non-magnetic material storage pile, and the magnetic material storage pile, each with a maximum capacity of 1000 tons of steel and iron, and venting to the atmosphere; and

(6) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons of steel and iron per hour powered by one (1) diesel engine with rated capacity of 100 horsepower, and venting to the atmosphere.

(d) One (1) coke screening operation, constructed in 2003, with a maximum capacity of 110 tons of coke per hour, consisting of the following:

(1) One (1) feed hopper.

(2) One (1) double deck screen.

(3) Five (5) conveyors.

(4) One (1) diesel engine, purchased on January 5, 2003, constructed in 2003, with a maximum capacity of 134 horsepower, and exhausting to stack SV001.

(e) One (1) mobile slag screening operation, constructed in 2005, consisting of the following:

(1) One (1) mobile rotary drum screen (trommel), identified as SS-2, with a maximum capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour, and exhausting to the atmosphere.

(2) One (1) six-cylinder diesel engine associated with the rotary drum screen (SS-2), identified as SD-2, with a maximum rated capacity of 200 horsepower, and exhausting to atmosphere.

(3) Two (2) portable stacking conveyor belts with a maximum combined capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour.

(4) One (1) diesel drive engine for conveyors, identified as SD-3, purchased on June 10, 2005, with a maximum rated capacity of 45 horsepower, and exhausting to atmosphere.

(f) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(g) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(a) One (1) mobile slag screening operation, consisting of the following:

(1) One (1) mobile rotary drum screen (trommel), identified as SS-2, constructed in 2005, with a maximum capacity of 200 tons of slag per hour and an average sustainable capacity of 125 tons per hour, and exhausting to the atmosphere.

(2) One (1) six-cylinder diesel associated with the rotary drum screen (SS-2), identified as SD-2, purchased on June 10, 2005, with a maximum rated capacity of 200 horsepower, and exhausting to atmosphere.

(3) Two (2) portable stacking conveyor belts, constructed in 2005, with a maximum combined capacity of 200 tons per hour, and an average sustainable capacity of 125 tons per hour.

(4) One (1) diesel drive engine for conveyors, identified as SD-3, constructed in 2005, purchased on June 10, 2005, with a maximum rated capacity of 45 horsepower, and exhausting to atmosphere.

(b) One (1) mobile slag screening operation, permitted in 2013, consisting of the following:

(1) One (1) Terex (Chieftain) multi-deck portable screen identified as PS-1, with a maximum capacity of 300 tons of slag per hour, exhausting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

(c) One (1) magnetic separator and conveyor, identified as MAG-1, permitted in 2013, with a maximum capacity of 300 tons per hour.

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

D.5.1 ~~Part 70~~ NOx Minor Limit [326 IAC 2-7][326 IAC 2-3]

(a) Pursuant to Minor Source Modification 089-20905-00465, issued on May 25, 2005, and as revised in this permit, the hours of operation of each diesel engine (SD-2 and SD-3) shall be less than or equal to 6579 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total NOx emissions from diesel engines SD-2, ~~and~~ SD-3, **D-1, and D-2** shall be less than or equal to an emission rate of 7.6 pounds per hour.

(c) The total hours of operation of each diesel engines (D-1 and D-2) shall be less than or equal to 4000 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with ~~these limitations~~ **D.5.1(a) and (b) shall ensure that** ~~The hours of operation limit and hourly NO_x emission rate limit is required to limit~~ **the** potential to emit of nitrogen oxides (NO_x) **for SD-2 and SD-3 (total) remains below** ~~to~~ less than twenty-five (25) tons per twelve (12) consecutive month period, ~~. Compliance with this limit makes~~ **rendering** 326 IAC 2-3 (Emission Offset) not applicable. **Compliance with D.5.1(b) and (c) shall ensure that the potential to emit of NOx (total) for D-1 and D-2 remains below 40 tons per twelve (12) consecutive month period, rendering 326 IAC 2-3 not applicable.**

D.5.2 Particulate Matter PSD Minor Limit [326 IAC 2-2]

(a) The throughput of slag for the screen PS-1 and magnetic conveyor MAG-1 shall be limited to 120,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The PM, PM-10 and PM2.5 emissions shall not exceed the following:

Emission Unit	EF PM (lb/ton)	EF PM-10 (lb/ton)	EF PM2.5 (lb/ton)
Screen PS-1	0.025	0.0087	0.0038
Conveyor MAG-1	0.003	0.0011	0.0005

Compliance with these limitations shall ensure that the PM, PM-10 and PM2.5 emissions from the screen PS-1 and conveyor MAG-1, in conjunction with the PM, PM-10, and PM2.5 emissions from diesel engines D-1 and D-2 shall be limited to less than 25, 15, and 10 tons per year, rendering 326 IAC 2-2 not applicable.

D.5.~~2~~**3** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan is required for the trommel screening operation. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.~~

A Preventative Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

D.5.~~3~~**4** PM and PM_{10} Control

The Permittee shall use wet suppression on an as needed basis to control emissions of PM and PM_{10} from the rotary drum screen and the conveyor transfer points **and the screen PS-1 and conveyor MAG-1 transfer points** when these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 6.8-1-2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the processed material to ensure the moisture content is greater than 5.0 weight percent (%). The method for moisture content analysis shall be approved by IDEM, OAQ.

D.5.~~4~~**5** Visible Emissions Notations

(a) Visible emission notations of the exhausts from the rotary drum screen, **screen PS-1** and from each conveyor transfer point 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. Section C – Response to Excursions and Exceedances **c**ontains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.5.~~5~~**6** Record Keeping Requirements

(a) To document the compliance status with Condition D.5.1, the Permittee shall maintain records of the **total hours of operation of each of** ~~total input of diesel fuel to~~ the diesel engines (SD-2 and SD-3), **D-1 and D-2**.

(b) To document the compliance status with Condition D.5.~~3~~**4**, the Permittee shall maintain records of the chemical analysis of the processed material, as needed.

(c) To document the compliance status with Condition D.5.~~4~~**5**, the Permittee shall maintain once per day records of visible emission notations of the rotary drum screen, **screen PS-1** and transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).

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

D.5.~~6~~**7** Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition**s** D.5.1 **and D.5.2** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(34).

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(1) One (1) double deck screen, constructed in 2008, with a maximum rated capacity of 75 tons per hour, powered by an associated diesel engine with rated capacity of 100 horsepower, and venting to the atmosphere.

(2) One (1) diesel engine, identified as D-1, permitted in 2013, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(3) One (1) diesel engine, identified as D-2, permitted in 2013, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

E.1.1 General Provisions Relating to New Source Performance Standards under 40 CFR Part 60 [326 IAC 12-1][40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the one (1) double deck screen 100 horsepower diesel engine, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports 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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, Standard of Performance for Stationary Compression Ignition Internal Combustion Engines (included as Attachment B to this permit), for the one (1) double deck screen 100 horsepower diesel engine as follows:

(1) 40 CFR 60.4200
(2) 40 CFR 60.4204(b)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207(b) and (c)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209(b)
(7) 40 CFR 60.4211(a) and (c)
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214(c)
(10) 40 CFR 60.4218
(11) 40 CFR 60.4219
(12) Table 8 to Subpart IIII (applicable portions)

E.1.3 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] – D-1 and D-2

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, Standard of Performance for Stationary

Compression Ignition Internal Combustion Engines (included as Attachment B to this permit), for the diesel engines D-1 and D-2 as follows:

(1) 40 CFR 60.4200(a)
(2) 40 CFR 60.4201
(3) 40 CFR 60.4202
(4) 40 CFR 60.4204(b)
(5) 40 CFR 60.4205(b)
(6) 40 CFR 60.4206
(7) 40 CFR 60.4207(b)
(8) 40 CFR 60.4209(b)
(9) 40 CFR 60.4210(b)
(10) 40 CFR 60.4211(a) and (c)
(11) 40 CFR 60.4212
(12) 40 CFR 60.4214(c)
(13) 40 CFR 60.4218
(14) 40 CFR 60.4219

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) coke screening operation, constructed in 2003, with a maximum capacity of 110 tons of coke per hour, consisting of the following:

(1) One (1) non-emergency diesel engine, constructed in 2003, purchased on January 5, 2003, with a maximum capacity of 134 horsepower, and exhausting to stack SV001.

…

(c) The following diesel engines permitted in 2013:

(1) One (1) diesel engine, identified as D-1, with a rated capacity of 168 horsepower, exhausting to atmosphere.

(2) One (1) diesel engine, identified as D-2, with a rated capacity of 200 horsepower, exhausting to the atmosphere.

Under NESHAP Subpart ZZZZ, the 134 horsepower, 200 horsepower, and 45 horsepower engines are considered existing compression ignition reciprocating internal combustion engines. **Under NESHAP Subpart ZZZZ, the diesel engines D-1 and D-2 are considered new compression ignition reciprocating internal combustion engines.**

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

(a) Pursuant to 40 CFR 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1 for Stationary Reciprocating Internal Combustion Engines, identified as one (1) coke screening 134 horsepower diesel engine, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.9, the Permittee shall submit all required notifications and reports 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

E.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the one (1) coke screening 134 horsepower diesel engine, as follows:

(1) 63.6585(a) and (b)
(2) 63.6590(a)(1)(ii)
(3) 63.6595(a)(1) and (c)
(4) 63.6602
(5) 63.6605
(6) 63.6612
(7) 63.6615
(7) 63.6620
(8) 63.6625(e) and (h)
(9) 63.6630
(10) 63.6635
(11) 63.6640(a) and (b)
(12) 63.6645(a)(1)
(13) 63.6645(d), (g), and (h)
(14) 63.6650(a), (b), and (c)
(15) 63.6655(a), (d), and (e)
(16) 63.6660
(17) 63.6665
(18) 63.6670
(19) 63.6675
(20) Tables 2c, 4, 5, 7, and 8 to Subpart ZZZZ (applicable portions)

E.2.3 National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR 63, Subpart ZZZZ] – D1 and D-2

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (included as Attachment C to this permit), for the diesel engines D-1 and D-2, as follows:

(1) 40 CFR 63.6585(a) and (b)
(2) 40 CFR 63.6590(a)(2)(ii)
(3) 40 CFR 63.6595(a)(5) and (c)
(4) 40 CFR 63.6610
(5) 40 CFR 63.6615
(6) 63.6620
(7) 63.6630
(8) 63.6635
(9) 63.6640(a) and (b)
(10) 63.6645(d)
(11) 63.6650(a),(b),and (c)
(12) 63.6655(f)(1)
(13) 63.6660
(14) 63.6665
(15) 63.6670
(16) 63.6675

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

Part 70 Quarterly Report

Source Name: **Fritz Enterprises, Inc.- a contractor of ArcelorMittal USA, Inc.**
Source Address: **3210 Watling, East Chicago, Indiana, 46312**
Part 70 Permit No.: **T089-29857-00465**
Facility: **Diesel Engines D-1 and D-2**
Parameter: **Hours of operation**
Limit: **Less than or equal to 4000 hours (each) per twelve (12) consecutive month period with compliance determined at the end of each month**

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:

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

Part 70 Quarterly Report

Source Name: **Fritz Enterprises, Inc.- a contractor of ArcelorMittal USA, Inc.**
Source Address: **3210 Watling, East Chicago, Indiana, 46312**
Part 70 Permit No.: **T089-29857-00465**
Facility: **Screen PS-1 and conveyor MAG-1**
Parameter: **Slag throughput**
Limit: **Less than 120,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month**

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:

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 089-32538-00465 and Significant Permit Modification No. 089-32562-00465. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Madhurima Moulik 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) 233-0868 or toll free at 1-800-451-6027 extension 3-0868.

(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

TSD Appendix A

Emissions Calculations - Screen PS-1, Conveyor MAG-1

Company Name: Fritz Enterprises, Inc.
Significant Source Modification No.: 089-32538-00465
Significant Permit Modification No.: 089-32562-00465
Reviewer: Madhurima Moulik
Date: December 14, 2012

Throughput (tons per year)* 2,628,000 tons per year

Unrestricted PTE

Emission Unit	PM EF (lb/ton)	PM (tons/yr)	PM-10 EF (lb/ton)	PM-10 (tons/yr)	PM2.5 EF (lb/ton)	PM2.5 (tons/yr)
Screen Sc-P1	0.0250	32.8500	0.0087	11.4318	0.0038	4.9275
Conveyor MAG-1	0.0030	3.9420	0.0011	1.4454	0.0005	0.5913
Total (tons/yr)		**36.79**		**12.88**		**5.52**

* Capacity 300 tons per hour, 8760 hours per year

Limited throughput ** 1200000 tons per year

Emission Unit	PM EF (lb/ton)	PM (tons/yr)	PM 10 EF (lb/ton)	PM-10 (tons/yr)	PM2.5 EF (lb/ton)	PM2.5 (tons/yr)
Screen Sc-P1	0.0250	15.0000	0.0087	5.2200	0.0038	2.2800
Conveyor MAG-1	0.0030	1.8000	0.0011	0.6600	0.0005	0.3000
Total (tons/yr)		**16.80**		**5.88**		**2.58**

** Capacity 300 tons per hour, 4000 hours per year
Methodology:
Emission factors for screening and conveying based on AP-42 Table 11.19.2-2 (Crushed Stone Processing Operations)

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)

Company Name: Fritz Enterprises, Inc.
Significant Source Modification No.: 089-32538-00465
Significant Permit Modification No.: 089-32562-00465
Reviewer: Madhurima Moulik
Date: 12-Dec-12

Diesel Engine D-1
B. Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	168.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	1,471,680

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	1.62	1.62	1.62	1.51	22.81	1.85	4.92

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

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	4.81E-03	2.11E-03	1.47E-03	2.01E-04	6.08E-03	3.95E-03	4.76E-04	8.65E-04

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**2.00E-02**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Potential Emission in tons/yr	8.46E+02	3.41E-02	6.81E-03

Summed Potential Emissions in tons/yr	**8.46E+02**
CO2e Total in tons/yr	**8.49E+02**

Methodology
Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)

Company Name: Fritz Enterprises, Inc.
Significant Source Modification No.: 089-32538-00465
Significant Permit Modification No.: 089-32562-00465
Reviewer: Madhurima Moulik
Date: 14-Dec-12

Diesel Engine D-2

Output Horsepower Rating (hp)	200.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	1,752,000

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	1.93	1.93	1.93	1.80	27.16	2.20	5.85

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

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	5.72E-03	2.51E-03	1.75E-03	2.40E-04	7.24E-03	4.70E-03	5.67E-04	1.03E-03

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**2.38E-02**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Potential Emission in tons/yr	1.01E+03	4.06E-02	8.11E-03

Summed Potential Emissions in tons/yr	**1.01E+03**
CO2e Total in tons/yr	**1.01E+03**

Methodology
Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Option A Methodology
Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Option B Methodology
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
Summary

Company Name: Fritz Enterprises, Inc.
Significant Source Modification No.: 089-32538-00465
Significant Permit Modification No.: 089-32562-00465
Reviewer: Madhurima Moulik
Date: 14-Dec-12

Emission Unit	Potential to Emit (Tons Per Year) (unrestricted)									
	PM	PM10	PM2.5	NOx	CO	SO2	VOC	CO2e	Single HAP	Comb. HAPs
Screen P-1, Magnetic Conveyor MAG-1	36.79	12.88	5.52	0	0	0	0	0	0	0
Diesel Engine D-1	1.62	1.62	1.62	22.81	4.92	1.51	1.85	849	0	0
Diesel Engine D-2	1.93	1.93	1.93	27.6	5.85	1.8	2.2	1013	0	0
Total (tons/year)	**40.34**	**16.43**	**9.07**	**50.41**	**10.77**	**3.31**	**4.05**	**1862**	**0**	**0**

Emission Unit	Potential to Emit (Tons Per Year) (with limits)									
	PM	PM10	PM2.5	NOx	CO	SO2	VOC	CO2e	Single HAP	Comb. HAPs
Screen P-1, Magnetic Conveyor MAG-1	16.80	5.88	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diesel Engine D-1	0.74	0.74	0.74	10.42	2.25	0.69	0.84	387.67	0.00	0.00
Diesel Engine D-2	0.88	0.88	0.88	12.60	2.67	0.82	1.00	462.56	0.00	0.00
Total (tons/year)	**18.42**	**7.50**	**4.20**	**23.02**	**4.92**	**1.51**	**1.85**	**850.23**	**0.00**	**0.00**

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

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

TO: David W Splan
Fritz Enterprises, Inc.
1650 W Jefferson Street
East Chicago, IN 46312

DATE: February 27, 2013

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

SUBJECT: Final Decision
Significant Source Modification
089-32538-00465

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Responsible Official – Arcelor Mittal
Joseph Duckett – PE SNC Lavalin America, Inc.
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

February 27, 2013

TO: East Chicago Public Library

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

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

Applicant Name: Fritz Enterprises, Inc.
Permit Number: 089-32538-00465

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 2/27/2013 Fritz Enterprises, Inc. 089-32538-00465 Final			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		David W Splan Fritz Enterprises, Inc. - contractor of ArcelorMit 1650 W Jefferson St E Chicago IN 46312 (Source CAATS) via confirmed delviery									
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 *(Local Official)*									
3		East Chicago Public Library 1008 W. Chicago Ave. East Chicago IN 46312 *(Library)*									
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 *(Affected Party)*									
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 *(Health Department)*									
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 *(Affected Party)*									
7		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 *(Affected Party)*									
8		Mark Coleman 107 Diana Road Portage IN 46368 *(Affected Party)*									
9		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 *(Affected Party)*									
10		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 *(Affected Party)*									
11		Responsible Official Arcelor Mittal 3210 Watling St. East Chicago IN 46312-1610 *(source - addl contact)*									
12		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 *(Local Official)*									
13		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)									
14		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 *(Affected Party)*									
15		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 *(Affected Party)*									

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14			

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Mail Code 61-53

IDEM Staff	GHOTOPP 2/27/2013 Fritz Enterprises, Inc. - 089-32538-00465 Final			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		Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)									
2		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 *(Affected Party)*									
3		Gary City Council 401 Broadway # 209 Gary IN 46402 *(Local Official)*									
4		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 *(Affected Party)*									
5		Mr. Joseph Duckett, PE SNC Lavalin America Inc 6585 Penn Avenue Pittsburgh PA 15206 *(Consultant)*									
6		Ryan Dave 939 Cornwallis Munster IN 46321 *(Affected Party)*									
7		Matt Mikus Post Tribune 1433 E 83rd Avenue Merrillville IN 46410 *(Affected Party)*									
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