



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 30, 2011

RE: Harsco Metals Americas, a contractor of ArcelorMittal/ 089-29587-00358

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

Notice of Decision – Approval

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

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

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



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**Part 70 Administrative Operating Permit Renewal
OFFICE OF AIR QUALITY**

**Harsco Metals Americas, a division of Harsco Corporation - a
contractor of ArcelorMittal USA, Inc.
3236 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.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

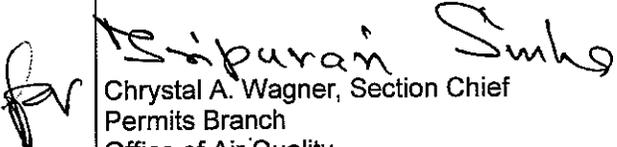
Operation Permit No.: T089-29587-00358	
Issued by:  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 30, 2011 Expiration Date: December 30, 2016

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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 briquetting and slab scarfer facility.

Source Address:	3236 Watling Street, MC#2-350, East Chicago, Indiana 46312
General Source Phone Number:	(219) 378-0006
SIC Code:	3312, 3398
County Location:	Lake
Source Location Status:	Nonattainment for PM _{2.5} standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Nonattainment NSR Rules 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) Harsco Metals Americas, a division of Harsco Corporation, Plant ID# 089-00358, the supporting operation, is located at 3236 Watling Street, MC#2-350, East Chicago, Indiana and consists of the following two (2) plants:
 - (1) Plant #1: Harsco Metals ECR LLC, wholly owned by Harsco Corporation; and
 - (2) Plant #2: Harsco Metals Americas, a division of Harsco Corporation.

Harsco Metals Americas, a division of Harsco Corporation is under the common control of ArcelorMittal USA, Inc.. These plants are considered one (1) 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 Harsco Metals Americas, a division of Harsco Corporation as one (1) major source.

Separate Part 70 permits will be issued to ArcelorMittal USA, Inc. and Harsco Metals Americas, a division of Harsco Corporation 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 permitted emission units and pollution control devices:

Plant #1

The briquetting facility, maximum processing capacity of 60 tons/hr of solid waste materials, installed in 1993, consists of:

- (a) one (1) raw material storage and blending area;

- (b) one (1) 37 MMBtu/hr natural gas-fired rotary drum dryer exhausting through a multi-tube cyclone and baghouse with an air flow rate of 36,000 acfm, with emissions exiting through stack 203 into the atmosphere;
- (c) one (1) blend silo exhausting through a bin vent into the building;
- (d) one (1) bulk sack and pneumatic truck unloading area, covered conveyors, and four (4) material silos, each with a bin vent and exhausting into the building;
- (e) two (2) pug mills, one (1) molasses storage vessel, one (1) briquette press, and one (1) vibrating screen exhausting into the building; and
- (f) one (1) indoor storage pile.

Plant #2

The slab scarfer facility consists of:

- (a) One (1) natural gas-fired Androfer Slab Scarfer, with a maximum capacity of 225 tons per hour and maximum heat input of 1.5 MMBtu/hr, with emissions exiting through one (1) Wheelabrator Jet III Dust Collector with an air flow rate of 95,000 acfm as control, constructed in 1996, and exhausting to stack 207.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 8-9][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):

Plant #1

- (a) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9-1]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

Plant #2

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8]
- (b) Paved and unpaved roads and parking lots with public access. [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, T089-29587-00358, 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) 757-0265; fax: (219) 757-0267.

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

Indiana Department of Environmental Management
Compliance 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 T089-29587-00358 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 PM₁₀ 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 PM₁₀ 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] [326 IAC 6.8-10-4]

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee has submitted to IDEM and shall maintain at the source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring, reporting, 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]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:
 - (1) starting in 2004 and every three (3) years thereafter, and
 - (2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) 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(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;
- (ii) Projected actual emissions;
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2][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 (II)) 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: Plant #1 Briquetting Facility

Plant #1

The briquetting facility, maximum processing capacity of 60 tons/hr of solid waste materials, installed in 1993, consists of:

- (a) one (1) raw material storage and blending area;
- (b) one (1) 37 MMBtu/hr natural gas-fired rotary drum dryer exhausting through a multi-tube cyclone and baghouse with an air flow rate of 36,000 acfm, with emissions exiting through stack 203 into the atmosphere;
- (c) one (1) blend silo exhausting through a bin vent into the building;
- (d) one (1) bulk sack and pneumatic truck unloading, covered conveyors and four (4) material silos, each with a bin vent and exhausting into the building;
- (e) two (2) pug mills, one (1) molasses storage vessel, one (1) briquette press and one (1) vibrating screen exhausting into the building; and
- (f) one (1) indoor storage pile.

(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 Emission Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to construction permit CP089-3264-00358, issued on October 19, 1993, and as revised by this permit, the Plant #1 gas-fired rotary drum dryer is limited as follows:

- (a) Emissions of PM shall not exceed 4.91 pounds per hour;
- (b) Emissions of NO_x shall not exceed 5.7 pounds per hour; and
- (c) Emissions of PM₁₀ shall not exceed 2.47 pounds per hour.

Compliance with these limits will limit the emissions of PM to less than twenty-five (25) tons per year, the emissions of PM₁₀ to less than fifteen (15) tons per year, rendering the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-2 (PSD) not applicable to the stationary briquetting facility.

D.1.2 Particulate Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (Nonattainment Area Particulate Limitations), the particulate matter emissions from the rotary drum dryer stack (203) shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for this facility and its control device. 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.1.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute, rule, or this permit, the baghouse and cyclone for rotary drum dryer (203) shall be operated at all times when its associated process is in operation.

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

D.1.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)][40 CFR 64.2 (CAM)]

- (a) Visible emission notations of the exhaust from the rotary drum dryer stack 203 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, at least 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 contains 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.1.6 Baghouse Parametric Monitoring [40 CFR 64.2 (CAM)]

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the rotary drum dryer, at least once per day when the rotary drum dryer is in operation. When for any one (1) reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 4.0 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.
- (b) 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 or replaced at least once every six (6) months.

D.1.7 Broken or Failed Bag Detection

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

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

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

D.1.8 Baghouse Inspections [326 IAC 6.8-8-7]

The Permittee shall inspect the rotary drum dryer baghouse pursuant to the CCP and 326 IAC 6.8-8-7. The inspections shall be performed at least once per calendar quarter. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.1.9 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units 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 line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the rotary dryer drum stack (203) exhaust once per day, when exhausting to the atmosphere. The Permittee shall include in its record when a reading is not taken and the reason for the lack of observations (i.e., the process did not operate that day).
- (b) To document the compliance status with Condition D.1.6, the Permittee shall maintain records once per day of the pressure drop across the baghouse during normal operation when venting to the atmosphere. The Permittee shall include in its record when a reading is not taken and the reason for the lack of observations (i.e., the process did not operate that day).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Plant #1 Insignificant Activities

- (a) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9-1]

(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 Volatile Organic Compounds (VOC) [326 IAC 8-9]

Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), the owner or operator of a stationary vessel with a capacity of less than thirty-nine thousand (39,000) gallons, and which is not exempt, shall maintain a record and submit to the department a report containing the following information on the vessel:

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.

The owner or operator of a stationary vessel shall keep all records as described for the life of the vessel.

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

D.2.2 Record Keeping Requirements

To document the compliance status with Condition D.2.1, the Permittee shall keep readily accessible records showing the dimension of the storage tanks and an analysis showing the capacity of the storage tanks.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Plant #2 Slab Scarfer

- (a) One (1) natural gas-fired Androfer Slab Scarfer, with a maximum capacity of 225 tons per hour and maximum heat input of 1.5 MMBtu/hr, with emissions exiting through one (1) Wheelabrator Jet III Dust Collector with an air flow rate of 95,000 acfm as control, constructed in 1996, and exhausting to stack 207.

(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 Emission Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to Part 70 Operating Permit T127-16202-00098, issued on June 28, 2006, and as revised by this permit, the Plant #2 stationary steel slab scarfer operation is limited as follows:

- (a) emissions of PM shall not exceed 5.15 pounds per hour; and
- (b) emissions of PM₁₀ shall not exceed 2.86 pounds per hour.

Compliance with these limits will limit the emissions of PM to less than twenty-five (25) tons per year and the emissions of PM₁₀ to less than fifteen (15) tons per year, rendering the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-2 (PSD) not applicable to the stationary steel slab scarfer operation.

D.3.2 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the slab scarfer shall not exceed 0.03 grains per dry standard cubic foot (dscf) of exhaust air.

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

A Preventive Maintenance Plan is required for this facility and its control device. 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.3.4 Particulate Control [326 IAC 2-7-6(6)]

In order to comply with Conditions D.3.1 and D.3.2, the baghouse for PM control shall be in operation and control emissions from the slab scarfer at all times that the slab scarfer is operating.

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

D.3.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the slab scarfer stack (207) exhaust 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, at least 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 or Exceedances contains 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.3.6 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 slab scarfer, at least once per day when the slab scarfer is in operation. When, for any one (1) reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 10.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps. 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.

D.3.7 Broken or Failed Bag Detection

- (1) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (2) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the current batch. 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).
- (3) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ, of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

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

D.3.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.5, the Permittee shall maintain records of visible emission notations of the slab scarfer stack exhaust once per day. The Permittee shall include in its record when a reading is not taken and the reason for the lack of observations (i.e., the process did not operate that day).
- (b) In order to document the compliance status with Condition D.3.6, the Permittee shall maintain records the pressure drop across the baghouse once per day. The Permittee shall include in its record when a reading is not taken and the reason for the lack of observations (i.e., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Plant #2 Insignificant Activities

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8]

(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 Volatile Organic Compounds [326 IAC 8-3-2][326 IAC 8-3-5][326 IAC 8-3-8]

The degreasing operations shall comply with the following requirements:

- (a) Pursuant to 326 IAC 8-3-2, the owner or operator shall:
- (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements; and
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one hand if:
 - (A) The solvent volatility is greater than three-tenths (0.3) pounds per square inch (15 millimeters of mercury) measured at 38 degrees Celsius (100 degrees Fahrenheit);
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38 C) (one hundred degrees Fahrenheit (100 F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in 326 IAC 8-3-5(b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38 C) (one hundred degrees Fahrenheit (100 F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9 C) (one hundred twenty degrees Fahrenheit (120 F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (c) Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
- (d) Pursuant to 326 IAC 8-3-8, users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components, shall ensure that the following operating requirements are met:
- (1) On and after May 1, 2001, no person shall do the following:

Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
 - (2) On and after November 1, 1999, the following record keeping requirements shall be followed:

All persons subject to the requirements of subsection (d)(1) above shall maintain each of the following records for each purchase:

 - (i) The name and address of the solvent supplier.
 - (ii) The date of purchase.
 - (iii) The type of solvent.
 - (iv) The volume of each unit of solvent.

- (v) The total volume of the solvent.
- (vi) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

Source Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Source Address: 3236 Watling Street, MC#2-350, East Chicago, Indiana 46312
Part 70 Permit No.: T089-29587-00358

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: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Source Address: 3236 Watling Street, MC#2-350, East Chicago, Indiana 46312
Part 70 Permit No.: T089-29587-00358

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 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Source Address: 3236 Watling Street, MC#2-350, East Chicago, Indiana 46312
 Part 70 Permit No.: T089-29587-00358

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

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".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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 Administrative Operating Permit Renewal No. T089-29587-00358

Harsco Metals Americas, a division of Harsco Corporation

A Contractor of ArcelorMittal USA, Inc.

3236 Watling Street, MC#2-350
East Chicago, Indiana 46312

Fugitive Dust Control Plan (FDCP)

November 11, 2010

Harsco Metals Americas, a division of Harsco Corporation: Plant #1

Harsco Metals ECR LLC is a subcontractor to ArcelorMittal USA, Inc. All of the fugitive dust sources around the ECR facility that are required to have permits are owned and under the exclusive control of ArcelorMittal USA, Inc., whose control measures and operating procedures minimize emissions and prevent off-property transport. All unpaved/paved roads and parking lots around the Harsco Metals ECR facility are owned by and under the exclusive control of ArcelorMittal USA, Inc. There are no other fugitive dust source categories at the Harsco Metals ECR facility.

Harsco Metals Americas, a division of Harsco Corporation: Plant #2

1.0 INTRODUCTION

The Harsco Metals Americas facility and operations covered by the Fugitive Particulate Matter Control Plan (Plan) are located on the grounds of ArcelorMittal USA, Inc., East Chicago, Indiana. The facilities and operations are described in detail in Sections 2 and 3 of this Plan.

The Plan addresses open fugitive dust sources as follows:

- Section 2: Identifies the facilities and operations at Harsco Metals Americas
- Section 3: Describes each of the sources at Harsco Metals Americas by general function and by specific characteristics necessary to support PM-10 emission calculations
- Section 4: Identifies control measures
- Section 5: Identifies alternative control measures to be employed when conditions prevent execution of the control measures identified in Section 4
- Section 6: Presents the schedule for implementing each of the control measures

2.0 IDENTIFICATION OF FACILITIES AND OPERATIONS

Harsco Metals Americas is referred to as "the source" and is defined by its facilities and operations. 326 IAC 6.8-10-4(3)(A) through (D) requires inclusion of the source's name and address; identification of the applicable facilities and operations within the source; and location of the facilities and operations on a map. The entity addressed in the Plan is:

Harsco Metals Americas
3236 Watling Street (Mail Code #2-665)
East Chicago, Indiana 46312

2.1 Facilities and Operations

326 IAC 6.8-10-4(3)(B) requires identification of operations and facilities listed in 326 IAC 6.8-10-1(a)(1):

1. Paved roads and parking lots
2. Unpaved roads and parking lots
3. Material transfer
4. Wind erosion from storage piles and exposed areas
5. Material transportation activities
6. Material processing facilities with capacity equal to or greater than ten (10) tons per hour
7. Dust handling equipment
8. Any other facility or operation with a potential to emit fugitive particulate matter and not included in this subsection

Table 1 shows the facilities and operations required to be listed and are commonly referred to as source categories. The actual specific sources comprising each category are located on the map identified as Figure 1, and will be discussed in detail in Sections 3 of this Plan.

There are approximately 0.1 miles of active paved roads at Harsco Metals Americas with approximately 1700 vehicle miles traveled (VMT) yearly. Vehicles using the roads range from light duty passenger vehicles to large capacity haul trucks.

There are approximately 2.0 miles of active unpaved roads at Harsco Metals Americas with approximately 37100 VMT yearly. Vehicles using the roads also range from light duty passenger vehicles to large capacity haul trucks.

Material handling and transfer occurs throughout the facility. Truck, slag pot carrier, overhead crane and front-end loader move materials.

Exposed areas include uncovered expanses of land that have neither structures nor storage piles and are susceptible to wind erosion. Harsco Metals Americas does not have any areas that fall into this category.

Transportation of in-plant material occurs throughout the facility. These operations include hauling of slag from the melt shop to the pits and hauling of slag from the pits to the processing plants.

2.2 Source Location Map

Open dust sources covered in the Plan are shown on Figure 1. Sources coded with a "PR" or a "UR" are paved or unpaved road segments, respectively. Sources coded with an "SP" are storage piles.

3.0 DESCRIPTION OF FACILITIES AND OPERATIONS

This section of the Plan identifies and describes fugitive sources at Harsco Metals Americas. 326 IAC 6.8-10(3)(D)(i) through (v) requires full descriptions of the following:

1. The road lengths and widths, average daily traffic, surface silt loading, classification of vehicle traffic, and other data necessary to estimate PM-10 emissions from paved and unpaved roads and parking lots.
2. A description of each storage pile, including the type of material in the pile, its moisture content, the silt content, the throughput, and the equipment used to load onto and load out of the storage piles.
3. A complete description of the material processing facilities on the plant property, including a material flow diagram of the processing lines, the rated capacity of each piece of equipment, and the existing control equipment and their efficiencies, including the process equipment served.
4. A complete description of the material transfer, in-plant transportation and dust handling equipment. Material transfer operations shall include, at a minimum, those operations contained in subsection (c)(13).
5. All other fugitive particulate matter emitting facilities not covered in this clause.

3.1 Paved Road, Unpaved Road, and Storage Piles/Material Handling Description

Table 2 presents the required data to estimate PM-10 for paved roads. Table 3 presents the required data for unpaved roads. Table 4 presents the required data for storage piles and the material handling processes associated with them.

3.2 Material Processing Facilities Description

There are three principal material processing facilities at Harsco Metals that generate material processing fugitive particulate matter emissions. These facilities include the main processing plant, the aggregate

processing plant (minus plant) and the iron processing plant (plus plant). These facilities utilize raw material from the slag pits.

Figures 3 through 5 are flow diagrams of each of the material processing facilities discussed above. Equipment capacities, existing control equipment and their efficiencies, and their corresponding process equipment are all discussed and listed in the Harsco Metals Title V permit application submitted September 1996.

3.3 Material Transfer, In-Plant Transportation, and Dust Handling Facilities Description

Materials are moved from one point to another at Harsco Metals Americas in a variety of ways; dump trucks, front-end loaders, conveyors, overhead cranes and pot carriers. The following provides a test-based description of these activities.

3.3.1 Material Transfer

Each of the three material processing facilities has product conveyors that transfer material onto the ground (refer to Figures 3 through 5 for conveyor identification). Once on the ground, the material is scooped up with a front-end loader and loaded into Ispat trucks for hauling.

Number 4 BOF slag and kish is dumped via a pot carrier into Harsco Metals' pits. The slag is then loaded into haul trucks by front-end loaders. This material is then dumped into the initial hopper at the main processing plant.

Number 2 BOF slag and blast furnace kish is delivered by rail to Harsco Metals Americas by ArcelorMittal USA, Inc. The slag pots are dumped with an overhead gantry crane. The slag is then loaded into haul trucks by front-end loaders and dumped into the initial hopper at the main processing plant. Kish is loaded into haul trucks by front-end loaders stockpiled on the ground at the aggregate processing plant (minus plant) for feed by a front-end loader.

3.3.2 In-Plant Transportation

In-plant transportation is conducted by one of two means. Slag from Number 4 BOF is transported via a slag pot carrier to the slag pits. It is then transported to the material processing plant by haul trucks.

Ispat transports slag from Number 2 BOF via rail to Harsco Metal. It is then transported to the material processing plant by haul trucks.

3.3.3 Dust Handling

Harsco Metals does not engage in activities that require dust handling.

4.0 CONTROL STRATEGIES

This section is intended to identify control strategies and their effectiveness for each of the listed source categories as required in 326 IAC 6.8-10-4(3)(E).

4.1 Open Dust Sources

The categories addressed in this section include paved roads, unpaved roads, material transfer, and wind erosion from storage piles and exposed areas.

4.1.1 Road Sources

The paved and unpaved road control plan involves both surface improvements and surface treatments. Surface improvements, as opposed to surface treatments discussed below are relatively permanent. These improvements include grading the roads and placement of slag aggregate in an effort to reduce the amount of silt buildup on the road.

Surface treatments include water applications with a water truck. Watering increases the moisture content which conglomerates particles and reduces their likelihood to become suspended when vehicles pass over the surface.

The control efficiency of unpaved road watering depends upon: (a) the amount of water applied per unit area of road surface; (b) the time between reapplications; (c) traffic volume during that period; and (d) prevailing meteorological conditions during that period. Efficiencies for unpaved road watering are depicted in Figure 2.

4.1.2 Material Transfer Operations and Wind Erosion from Storage Piles and Exposed Areas

Since the fugitive particulate matter control methods for material transfer operations and wind erosion are the same, they are discussed together.

The control plan for emissions in storage pile areas is two fold. In most cases, good work practices provide substantial opportunities for emissions reduction. These practices include the following items:

1. Load and unload on the downwind side of piles when practicable to reduce the wind load on the material.
2. Minimize the drop height of the materials to minimize exposure to wind and disturbance of the pile.

In addition to the above, slag, when left undisturbed, will crust over, forming a natural control technique. Stockpiles that are in this state will be loaded and unloaded from one side to avoid disturbance of the crust.

Areas in which roads, structures or stockpiles do not exist are considered exposed areas. These areas may be disturbed during the year on an unpredictable schedule.

4.2 Material Processing Facilities

Material processing facilities are described in Section 3.2 of this Plan. The raw material processed through these facilities is quenched with water prior to processing. Typical moisture content of the material ranges from 2-10% providing a control efficiency in excess of 90%¹.

4.3 In-Plant Transportation

In-plant transportation of materials is described in section 3.3.2 of this Plan. The focus of this source category is the transport of materials via hauling vehicles. This category includes dust blown from the bed and from horizontal surfaces of the vehicle that has collected material.

Molten slag transported from Number 4 BOF contains less than 0.5% silt and therefore not defined as a particulate producing material.

Slag transported from the Number 2 and 4 slag pits is watered prior to loading and transport. Moisture contents range from approximately 2-10% providing a control efficiency in excess of 90%².

1 AP-42, Table 11.19.2-2 Emission Factors for Crushed Stone Processing Operations. January 1995.

4.4 Dust Handling Equipment

Harsco Metals does not engage in activities that require dust-handling equipment.

5.0 ALTERNATIVE CONTROLS UNDER ADVERSE CONDITIONS

326 IAC 6.8-10-4(3)(F) requires “a list of the conditions that will prevent control measures and practices from being applied and alternative control measures and practices that will achieve compliance with the emissions limitations.” This section of the Plan addresses alternative controls on a case-by-case basis.

5.1 Open Dust Sources

Freezing temperatures can affect the control of fugitive dust from open dust sources. Freezing temperatures preclude the use of the water truck during winter months, which is an element in the control of paved and unpaved roads.

5.1.1 Road Sources

The primary road control measure includes the use of a water truck. When conditions exist that prevent the use of the water truck, Harsco Metals utilizes an off-road dump truck or front-end loader. The truck/loader will be filled with water for application to the dust source.

5.1.2 Material Transfer Operations and Wind Erosion from Storage Piles and Exposed Areas

Since the primary material transfer operations are good work practices, such as minimizing drop height and loading/unloading on the leeward side of piles, there is no need for an alternative set of controls.

5.2 Material Processing Facilities

The primary material processing control utilizes water quenching at the slag pits. This method of control is not adversely affected by freezing temperatures; as such there is no need for an alternative set of controls.

5.3 In-Plant Transportation

The primary material processing control utilizes water quenching at the slag pits. This method of control is not adversely affected by freezing temperatures; as such there is no need for an alternative set of controls.

5.4 Dust Handling Equipment

Harsco Metals does not engage in activities that require dust-handling equipment

6.0 SCHEDULE FOR ACHIEVING COMPLIANCE

326 IAC 6.8-10-4 requires a schedule for achieving compliance with the provisions of the Plan. This Plan will be implemented immediately upon approval.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Administrative Operating Permit Renewal

Source Background and Description

Source Name:	Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Source Location:	3236 Watling Street, MC#2-350, East Chicago, Indiana 46312
County:	Lake
SIC Code:	3312, 3398
Permit Renewal No.:	T089-29587-00358
Permit Reviewer:	Donald McQuigg

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Harsco Metals ECR LLC - a contractor of ArcelorMittal USA, Inc., relating to the operation of a stationary slab scarfer facility and the operating permit renewal application from Harsco Metals - a contractor of ArcelorMittal USA, Inc., relating to the operation of a stationary briquetting facility.

On August 20, 2010, Harsco Metals ECR LLC submitted an application to the OAQ requesting to renew its operating permit. Harsco Metals ECR LLC was issued its first Part 70 Operating Permit on June 1, 2006.

On September 17, 2010, Harsco Metals Americas submitted an application to the OAQ requesting to renew its operating permit. Harsco Metals Americas was issued its first Part 70 Operating Permit on June 27, 2006.

On August 25, 2011, the OAQ received a request from Harsco Corporation to combine the above two operations into one (1) Part 70 Operating Permit under Harsco Metals Americas, a division of Harsco Corporation.

Source Definition

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) Harsco Metals Americas, a division of Harsco Corporation, Plant ID# 089-00358, the supporting operation, is located at 3236 Watling Street, East Chicago, Indiana and consists of the following two (2) plants:
 - (1) Plant #1: Harsco Metals ECR LLC, wholly owned by Harsco Corporation; and
 - (2) Plant #2: Harsco Metals Americas, a division of Harsco Corporation.

Harsco Metals Americas, a division of Harsco Corporation is under the common control of ArcelorMittal USA, Inc.. These plants are considered one (1) 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 Harsco Metals Americas, a division of Harsco Corporation as one (1) major source.

Separate Part 70 permits will be issued to ArcelorMittal USA, Inc. and Harsco Metals Americas, a division of Harsco Corporation solely for administrative purposes.

Permitted Emission Units and Pollution Control Equipment

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

Plant #1

The briquetting facility, maximum processing capacity of 60 tons/hr of solid waste materials, installed in 1993, consists of:

- (a) one (1) raw material storage pile and blending area;
- (b) one (1) 37 MMBtu/hr natural gas-fired rotary drum dryer exhausting through a multi-tube cyclone and baghouse with an air flow rate of 36,000 acfm, with emissions exiting through stack 203 into the atmosphere;
- (c) one (1) blend silo exhausting through a bin vent into the building;
- (d) one (1) bulk sack and pneumatic truck unloading area, covered conveyors, and four (4) material silos, each with a bin vent and exhausting into the building;
- (e) two (2) pug mills, one (1) molasses storage vessel, one (1) briquette press, and one (1) vibrating screen exhausting into the building; and
- (f) one (1) indoor storage pile.

Plant #2

The slab scarfer facility consists of:

- (a) One (1) natural gas-fired Androfer Slab Scarfer, with a maximum capacity of 225 tons per hour and maximum heat input of 1.5 MMBtu/hr, with emissions exiting through one (1) Wheelabrator Jet III Dust Collector with an air flow rate of 95,000 acfm as control, constructed in 1996, and exhausting to stack 207.

Insignificant Activities

The source also consists of the following insignificant activities:

Plant #1

- (a) Space heaters, process heaters, or boilers using the following fuels:
 - (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
 - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.
- (b) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month. [326 IAC 8-9]
- (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

Plant #2

- (a) Storage tanks with capacity less than or equal to one thousand (1000) and annual throughputs of less than twelve thousand (12,000) gallons, storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (b) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (c) Equipment related to manufacturing activities: cutting torches. [326 6.8-1-2(a)]
- (d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10MM) btu per hour.
- (e) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8]
- (f) Brazing, soldering, or welding operations. A trivial activity pursuant to 326 IAC 2-7-1(40)(E).
- (g) Hand-held drilling equipment. A trivial activity pursuant to 326 IAC 2-7-1(40)(F).
- (h) Repair activities, including replacement or repair of electrostatic precipitators, bags in baghouse, filters in air filtration equipment, and heat exchanger cleaning or repair.
- (i) Safety and emergency equipment. A trivial activity pursuant to 326 IAC 2-7-1(40)(K).
- (j) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units from Plant #2:

- (a) One (1) ferrous recovery plant, identified as BOF #2, constructed in 2004, used to convey and separate slag and kish, with a maximum throughput rate of 600 tons of slag and kish mixture per hour, controlled by water suppression, consisting of the following:
 - (1) Two (2) feeders;
 - (2) One (1) grizzly;
 - (3) Two (2) double deck screens;
 - (4) One (1) single deck screen;
 - (5) Thirteen (13) conveyors; and
 - (6) Eight (8) stock piles.
- (b) One (1) ferrous recovery plant, identified as BOF #4, constructed in 2004, used to convey and separate slag and kish, with a maximum throughput rate of 300 tons of slag and kish mixture per hour, controlled by water suppression, consisting of the following:
 - (1) Two (2) feeders;
 - (2) One (1) grizzly;
 - (3) Three (3) double deck screens;
 - (4) Fifteen (15) conveyors;

- (5) Nine (9) stock piles; and
- (6) One (1) crusher system, with a maximum throughput rate of 80 tons/hr, consisting of the following:
 - (A) One (1) crusher;
 - (B) One (1) parabelt; and
 - (C) Four (4) conveyors;
- (c) One (1) portable ferrous recovery plant, constructed in 2004, used to convey and separate slag and kish, with a maximum throughput rate of 300 tons of slag and kish mixture per hour, controlled by water suppression, consisting of the following:
 - (1) One (1) feeder;
 - (2) One (1) double deck screen;
 - (3) Six (6) conveyors; and
 - (4) Three (3) stock piles.
- (d) One (1) boat loading operation, constructed in 1991, with a maximum throughput rate of 1,300 tons of slag per hour, controlled by water suppression, consisting of the following:
 - (1) One (1) feeder;
 - (2) One (1) conveyor; and
 - (3) One (1) stockpile.

The source has removed the following specifically regulated insignificant activities from Plant #2:

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage tank of less than 10,500 gallon capacity. [326 IAC 8-9]
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank of less than 10,500 gallon capacity, and dispensing less than 230,000 gallons per month. [326 IAC 8-9]

Existing Approvals

Since the issuance of Part 70 Operating Permit T089-6583-00358 on June 1, 2006, Plant #1 has constructed or has been operating under the following additional approvals:

- (a) Administrative Amendment No. 089-29078-00358, issued on April 10, 2010.

Since the issuance of Part 70 Operating Permit T089-6581-00367 on June 27, 2006, Plant #2 has constructed or has been operating under the following additional approvals:

- (a) Administrative Amendment No. 089-29077-00367, issued on April 13, 2010; and
- (b) Administrative Amendment No. 089-24628-00367, issued on June 18, 2007.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

The following terms and conditions from previous approvals have been revised in this Part 70 Administrative Operating Permit Renewal:

- (a) PSD minor limit
 The Office of Air Quality (OAQ) has revised an emission limitation standard established in Construction Permit CP089-3264-00358, issued on October 19, 1993. The 10% opacity limitation in Condition D.1.1 does not ensure compliance with 326 IAC 2-2. Therefore, IDEM has removed this emission limitation standard for this renewal.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

The Permittee has agreed that this source is a major source for 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), and 326 IAC 2-1.1-5 (Nonattainment New Source Review (NSR)) for PM_{2.5}, PM₁₀, SO₂, VOC, CO and NO_x. Emission calculations are included as Appendix A to this TSD.

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; 148 th 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 June 4, 2010. 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.

¹The 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.

Basic nonattainment designation effective federally April 5, 2005, for PM_{2.5}.

- (a) Ozone Standards

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. Lake County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM_{2.5}

U.S. EPA, in the Federal Register Notice 70 FR 943, dated January 5, 2005, has designated Lake County as nonattainment for PM_{2.5}. On March 7, 2005, the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. 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 New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(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 or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	greater than 100
PM ₁₀	greater than 100
PM _{2.5}	greater than 100
SO ₂	greater than 100
VOC	greater than 100
CO	greater than 100
NO _x	greater than 100
GHG	greater than 100,000
Single HAP	greater than 10
Total HAP	greater than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHG is equal to or greater than one hundred thousand (100,000) tons of CO₂ equivalent (CO₂e) emissions per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

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

Process/ Emission Unit	Potential To Emit of Harsco Metals Americas After Issuance of Renewal (tons/year)									
	PM	PM ₁₀ ⁽¹⁾	PM _{2.5} ⁽²⁾	SO ₂	NO _x	VOC	CO	GHG	Total HAPs	Worst Single HAP
rotary drum dryer ⁽³⁾	21.50	10.82	10.82	-	-	-	-	-	-	-
rotary drum dryer natural gas combustion ⁽⁴⁾	0.7	2.9	2.9	0.2	38.1	2.1	32	46,005	0.72	0.69 (hexane)
raw material transfer with two (2) transfer points	0.305	0.137	0.081	-	-	-	-	-	-	-
rotating dryer screen with one (1) conveyor transfer point	0.615	0.206	0.016	-	-	-	-	-	-	-
one (1) blend silo with two (2) transfer points	0.074	0.024	0.007	-	-	-	-	-	-	-
four (4) material silos with eight (8) transfer points	0.294	0.097	0.027	-	-	-	-	-	-	-
one (1) briquette press and one (1) vibrating screen with two (2) transfer points	1.02	0.602	0.585	-	-	-	-	-	-	-
two (2) pug mills with four (4) transfer points	0.147	0.048	0.014	-	-	-	-	-	-	-
bulk sack truck unloading	0.009	0.004	0.004	-	-	-	-	-	-	-
one (1) raw material storage and blending area (fugitives)	0.16	0.07	0.07	-	-	-	-	-	-	-
Total PTE of Plant #1	24.99	14.96	14.53	0.2	38.1	2.1	32	46,005	0.72	0.69 (hexane)

Process/ Emission Unit	Potential To Emit of Harsco Metals Americas After Issuance of Renewal (tons/year)									
	PM	PM ₁₀ ⁽¹⁾	PM _{2.5} ⁽²⁾	SO ₂	NO _x	VOC	CO	GHG	Total HAPs	Worst Single HAP
Slab scarfer ⁽⁵⁾	22.56	12.53	12.53	-	-	-	-	-	-	-
Natural gas combustion ⁽⁶⁾	0.012	0.05	0.05	0.004	0.657	0.036	0.552	793	0.012	0.011 (hexane)
Cutting torches ⁽⁷⁾	2.41	2.41	2.41	negl	negl	negl	negl	negl	0.013	0.007 (Mn)
Insignificant degreaser	-	-	-	-	-	negl	-	-	-	-
Total PTE of Plant #2	24.99	14.99	14.99	0.004	0.657	0.036	0.552	793	0.012	0.011 (hexane)
Total PTE of Harsco Metals Americas	49.95	29.94	29.55	0.204	38.76	2.14	32.55	46,798	0.73	0.70 (hexane)
Total PTE of Entire Source	>100	>100	>100	>100	>100	>100	>100	>100,000 CO₂e	>25	>10
Title V Major Source Thresholds	NA	100	100	100	100	25	100	>100,000 CO ₂ e	25	10
PSD Major Source Thresholds	100	100	NA	NA	100	NA	100	>100,000 CO ₂ e	NA	NA
Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA	NA

negl. = negligible, <0.1 tons/yr

"-" = emission unit does not emit the designated pollutant

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀), not particulate matter (PM), is considered as a "regulated air pollutant".

(2) PM_{2.5} listed is direct PM_{2.5}.

(3) Emissions reflect the PSD limits of this permit.

(4) PM/PM₁₀/PM_{2.5} emissions vent to common stack 233 and are included in the PSD limits.

(5) 326 IAC 6.8-1-2(a) emission limit of 0.03 gr/scf converted to tons/yr at design flow rate of 36,000acfm; PM=PM₁₀=PM_{2.5}.

(6) PM/ PM₁₀/ PM_{2.5} emissions vent to common stack 207 and shall be included in the slab scarfer emissions.

(7) PM/ PM₁₀/ PM_{2.5} emission limitation pursuant to 326 IAC 6-3-1(b)(10) for exempt activity.

- (a) This existing stationary source is major for PSD because the emissions of at least one criteria pollutant are greater than one hundred (>100) tons per year, emissions of GHG are equal to or greater than one hundred thousand (>100,000) tons of CO₂ equivalent (CO₂e) emissions per year, and it is in one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is major for 326 IAC 2-1.1-5 (Nonattainment NSR) because the PTE of the nonattainment pollutant, PM_{2.5} is greater than one hundred (>100) tons per year.

Federal Rule Applicability

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the 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.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
rotary drum dryer/ PM/PM ₁₀ /PM _{2.5}	baghouse	Y	1,387	<15	100	Y	N
slab scarfer/ PM/PM ₁₀ /PM _{2.5}	baghouse	Y	98.55	4.93	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64 (CAM) are applicable to the rotary drum dryer for PM/PM₁₀/PM_{2.5} as part of this Part 70 permit renewal.

- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit renewal for this source.
- (c) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (40 CFR 60.110b, Subpart Kb) are not included in the permit for the insignificant petroleum liquid dispensing facility, with a storage capacity of 10,500 gallons of petroleum liquids, because the storage tank capacity is less than 75 cubic meters.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)
 The source is subject to 326 IAC 1-6-3.

326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset)
 (a) Pursuant to construction permit CP089-3264-00358, issued on October 19, 1993, and as revised by this permit, the Plant #1 gas-fired rotary drum dryer is limited as follows:

- (1) Emissions of PM shall not exceed 4.91 pounds per hour;
- (2) Emissions of NOx shall not exceed 5.7 pounds per hour; and
- (3) Emissions of PM₁₀ shall not exceed 2.47 pounds per hour.

This revision is a Title 1 change. Particulate emissions from material handling were not considered when the synthetic minor emission limits were originally established for the briquetting facility. Compliance with the above limits will limit the emissions of PM to less than twenty-five (25) tons per year, the emissions of PM₁₀ to less than fifteen (15) tons per year, rendering the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-2 (PSD) not applicable to the stationary briquetting facility.

(b) Pursuant to Part 70 Operating Permit T089-6581-00358, issued on June 27, 2006, and as revised by this permit, the Plant #2 stationary steel slab scarfer is limited as follows:

- (a) Emissions of PM shall not exceed 5.15 pounds per hour;

- (b) Emissions of PM₁₀ shall not exceed 2.86 pounds per hour.

This revision is a Title 1 change. Particulate emissions from the insignificant cutting torches were not considered when the synthetic minor emission limits were originally established for the steel slab scarfer facility. Compliance with the above limits will limit the emissions of PM to less than twenty-five (25) tons per year and the emissions of PM₁₀ to less than fifteen (15) tons per year, rendering the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-2 (PSD) not applicable to the stationary steel slab scarfer operation.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is located in Lake County and has emissions of VOC and NO_x greater than twenty-five (25) tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(1), annual reporting is required. An emission statement shall be submitted by July 1, 2011, and every year thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).

326 IAC 6-4 (Fugitive Dust Emissions)

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 6-5 (Fugitive Particulate Matter Limitations)

The source is not subject to the requirements of 326 IAC 6-5 because it is not located in a nonattainment area listed in 326 IAC 6-5-1(a).

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

This source is not subject to 326 IAC 6.5 because it is not located in one (1) of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

This source is subject to 326 IAC 6.8 because it is located in Lake County, its PM PTE is equal to or greater than one hundred (100) tons/year or actual emissions are equal to or greater than ten (10) tons/year. This source is one (1) of the sources specifically listed in 326 IAC 6.8-2-17. Therefore, the source is subject to the requirements of 326 IAC 6.8-2, 326 IAC 6.8-4, and 326 IAC 6.8-8.

326 IAC 6.8-4 (Lake County: Opacity Limits; Test Methods)

Pursuant to 326 IAC 6.8-4-1, test methods for 326 IAC 6.8-2 through 326 IAC 6.8-8 shall be as follows:

- (a) Emissions of PM₁₀ shall be measured by any of the following:

- (1) 40 CFR 51, Appendix M, Method 201.
- (2) 40 CFR 51, Appendix M, Method 201A.
- (3) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 3, and 4.

- (b) Emissions of TSP matter shall be measured by any of the following:

- (1) 40 CFR 60, Appendix A, Methods 5, 5A, 5D, 5E, or 17. Method 17 may not be used when the stack gas temperature exceeds two hundred forty-eight (248) degrees Fahrenheit (+/- 25°F).

- (2) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, or 4.
- (c) Measurements of opacity shall be conducted in accordance with the following:
 - (1) 40 CFR 60, Appendix A, Method 9, except for those sources where a three (3) minute averaging time is required.
 - (2) Sources requiring a three (3) minute averaging time are subject to all parts of Method 9 except the six (6) minute averaging provision. In these cases, the opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
- (d) Emissions of sulfuric acid mist shall be measured in accordance with 40 CFR 60, Appendix A, Method 8.

326 IAC 6.8-8 (Lake County: Continuous Compliance Plan)

Pursuant to 326 IAC 6.8-8-1(7), the Permittee shall implement the maintenance and inspection practices outlined in the current Continuous Compliance Plan (CCP).

- (a) Pursuant to 326 IAC 6.8-8-1(18), a CCP shall also be submitted by any source in Lake County for facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM₁₀ emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM₁₀ emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments) emission factors or other documentable emission factors acceptable to the commissioner.
- (b) Pursuant to 326 IAC 6.8-8-2, the plans for the particulate matter control equipment shall include operation and maintenance requirements.
- (c) Pursuant to 326 IAC 6.8-8-3(5), the plans for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures.

326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)

The source is subject to the requirements of 326 IAC 6.8-10-1 because the source is located in Lake County and it has the potential to emit fugitive particulate matter emissions greater than five (5) tons per year. Pursuant to 326 IAC 6.8-10-1 (Lake County: Fugitive Particulate Matter), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) **Paved Roads and Parking Lots**
The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass 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 approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

- (b) **Unpaved Roads and Parking**
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.
- (c) **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.
- (d) **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.
- (e) **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. The limitations may not apply during periods when application of fugitive particulate control measures are 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.
- (f) **Wind Erosion from Exposed Areas**
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.
- (g) **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.
- (h) **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.
- (i) **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.

- (1) There shall be a zero percent (0%) 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) PM₁₀ 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 opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (4) Any facility or operation not specified in 326 IAC 6.8-10-1 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall comply with these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan (FDCP), included as Attachment A to the permit.

326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures)

This source is subject to the requirements of 326 IAC 6.8-11-3, because the source has potential fugitive PM emissions greater than or equal to five (5) tons per year, is located in Lake County, and is specifically listed in 326 IAC 6.8-2.

State Rule Applicability – Individual Facilities

Plant #1

326 IAC 6-3 (Particulate Emissions Limitations for Process Operations)

The source is not subject to the requirements of 326 IAC 6-3-2 because the plant is subject to the requirements of 326 IAC 6.8 (Particulate Matter Limitations for Lake County). Pursuant to 326 IAC 6-3-1(c), if any limitation established by this rule is inconsistent with applicable limitations contained in 326 IAC 6.8 (Particulate Matter Limitations for Lake County) or 326 IAC 12 (New Source Performance Standards), then the limitations contained in 326 IAC 6.8 or 326 IAC 12 prevail.

326 IAC 6.8-1-2 (Particulate Emission Limitations)

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Emission Limitations), the particulate matter emissions from the rotary drum dryer (stack ID 203) shall not exceed three-hundredths (0.03) grains per dry standard cubic foot (gr/dscf).

326 IAC 6.8-2-17 (PM₁₀ and TSP Limits for ArcelorMittal USA, Inc.)

The rotary drum dryer at Plant #1 is located in Lake County but it is not specifically listed in 326 IAC 6.8-2-17. Therefore, 326 IAC 6.8-2-17 is not applicable to the rotary drum dryer.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Combustion facilities shall only use natural gas. The combustion facilities have a potential to emit less than twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide. Therefore, the requirements of 326 IAC 7-1.1-2 will not apply.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

The requirements of 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) do not apply to the insignificant gasoline or diesel storage tanks because they each have a capacity of less than 39,000 gallons.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source is located in Lake County; therefore, the volatile organic liquid storage tanks are subject to 326 IAC 8-9. Since these storage tanks have the capacities less than 39,000 gallons, these tanks are subject to the reporting and record keeping provisions of 326 IAC 8-9-6(a) and (b), which have the following requirements:

- (a) The owner or operator of each vessel shall maintain records for the life of the vessel for the following information:
 - (1) The vessel identification number.
 - (2) The vessel dimensions.
 - (3) The vessel capacity.
- (b) The owner or operator of a stationary vessel shall keep all records as described for the life of the vessel.

Plant #2

326 IAC 6-3 (Particulate Emissions for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(10), the cutting torches are exempt from the requirements of this rule because less than 3,400 inches per hour of stock one (1) inch thickness or less is cut.

326 IAC 6.8-1-2 (Particulate Emission Limitations)

- (a) Pursuant to 326 IAC 6.8-1-2(a) (Particulate Emission Limitations), the particulate matter emissions from the slab scarfer (stack 207) shall not exceed three-hundredths (0.03) grains per dry standard cubic foot (gr/dscf).
- (b) Pursuant to 326 IAC 6.8-1-2(a) (Particulate Emission Limitations), the insignificant cutting torches have actual particulate emissions of less than ten (10) tons per year and are not specifically listed in 326 IAC 6.8-4, 326 IAC 6.8-5, 326 IAC 6.8-8, 326 IAC 6.8-9, 326 IAC 6.8-10, or 326 IAC 6.8-11. Therefore, 326 IAC 6.8-2 is not applicable to the insignificant cutting torches.

326 IAC 6.8-2-17 (PM₁₀ and TSP Limits for ArcelorMittal USA, Inc.)

The slab scarfer at ArcelorMittal USA, Inc., is located in Lake County but it is not specifically listed in 326 IAC 6.8-2-17. Therefore 326 IAC 6.8-2-17 is not applicable to the slab scarfer operations.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Combustion facilities shall only use natural gas. The combustion facilities have a potential to emit less than twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide. Therefore, the requirements of 326 IAC 7-1.1-2 will not apply.

326 IAC 8-3-2 (Cold Cleaner Operations)

The degreasing operations are subject to the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations) because they were constructed after January 1, 1980, and use solvent containing VOC.

- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:
 - (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements; and

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

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The degreasing operations are subject to the requirements of 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control) because they were constructed after July 1, 1990, and use solvent containing VOC.

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs, the Permittee shall ensure that the following requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

- (1) Close the cover whenever articles are not being handled in the degreaser.
- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers)

Pursuant to 326 IAC 8-3-8, users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components, shall ensure that the following operating requirements are met:

- (a) On and after November 1, 1999, no person shall do the following:
 - (1) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
 - (2) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) On and after May 1, 2001, no person shall do the following:
 - (1) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
 - (2) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (c) On and after November 1, 1999, the following record keeping requirements shall be followed:
 - (1) All persons subject to (d)(1)(A) and (d)(2)(A) above shall maintain all of the following records for each sale:
 - (A) The name and address of the solvent purchaser.
 - (B) The date of sale.
 - (C) The type of solvent.
 - (D) The volume of each unit of solvent sold.
 - (E) The total volume of the solvent.
 - (F) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
 - (2) All persons subject to the requirements of subsection (d)(1)(B) and (d)(2)(B) above shall maintain each of the following records for each purchase:
 - (A) The name and address of the solvent supplier.
 - (B) The date of purchase.
 - (C) The type of solvent.
 - (D) The volume of each unit of solvent.

- (E) The total volume of the solvent.
 - (F) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (d) All records required by subsection (3) above shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

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 monitoring requirements applicable to this source are as follows:

Plant #1

(a) Visible Emissions Notations

- (1) Visible emission notations of the exhaust from the rotary drum dryer stack 203 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.
- (2) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (3) 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.
- (4) 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.
- (5) If abnormal emissions are observed, 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. Failure to take response steps shall be considered a deviation from this permit.

(b) Daily Monitoring of Baghouse Operational Parameters

- (1) The Permittee shall record the pressure drop across the baghouse used in conjunction with the rotary drum dryer, at least once per day when the rotary drum dryer is in operation. When for any one (1) reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 4.0 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.
- (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).

(c) Broken or Failed Bag Detection

- (1) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (2) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the current batch. 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).
- (3) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ, of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

- (d) The Permittee shall perform the baghouse inspections pursuant to the CCP and 326 IAC 6.8-8-7. The inspections shall be performed at least once per calendar quarter. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

These monitoring conditions are necessary because the baghouse must operate properly to ensure compliance with 326 IAC 6.8-1-2(a), 326 IAC 6.8-8, 326 IAC 6.8-10, 326 IAC 2-2 (Part 70), and 40 CFR 64.2 (Compliance Assurance Monitoring (CAM)).

Plant #2

(a) Visible Emissions Notations

- (1) Visible emission notations of the exhaust from the slab scarfer stack (207) 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.

- (2) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (3) 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.
 - (4) 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.
 - (5) If abnormal emissions are observed, 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. Failure to take response steps shall be considered a deviation from this permit.
- (b) Daily Monitoring of Baghouse Operational Parameters
- (1) The Permittee shall record the pressure drop across the baghouse used in conjunction with the slab scarfer, at least once per day when the slab scarfer is in operation. When, for any one (1) reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 10.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps. 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.
 - (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).
- (c) Broken or Failed Bag Detection
- (1) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
 - (2) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the current batch. 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).
 - (3) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ, of the expected date the failed units will be repaired or replaced. The notification shall

also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

- (d) The Permittee shall perform the baghouse inspections pursuant to the CCP and 326 IAC 6.8-8-7. The inspections shall be performed at least once per calendar quarter. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

These monitoring conditions are necessary because the baghouse must operate properly to ensure compliance with 326 IAC 6.8-1-2 (Particulate Emission Limitations) and 326 IAC 2-2 (PSD).

Recommendation

The staff recommends to the Commissioner that the Part 70 Administrative Operating Permit Renewal be approved. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review was received on August 20, 2010. Additional information was received on November 11, 2010, April 29, 2011, and August 25, 2011.

Conclusion

The operation of this stationary briquetting and slab scarfer facility shall be subject to the conditions of the attached Part 70 Administrative Operating Permit Renewal No. T089-29587-00358.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Donald McQuigg at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-4240 or toll free at 1-800-451-6027 extension 4-4240.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov.

**Appendix A: Emission Calculations
Source Wide Emissions Summary**

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.

Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312

Part 70 Permit No.: T089-29587-00358

Permit Reviewer: Donald McQuigg

Date: October 1, 2010

Uncontrolled PTE (tons/yr)										
Process ID/facility	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	VOC	GHG	Combined HAP	Single HAP
Plant #1 Rotary Dryer	1387	1387	1387	-	-	-	-	-	-	-
Plant #1 Rotary Dryer Combustion	0.7	2.9	2.9	0.23	38.1	32	2.1	46,005	0.72	0.69 (hexane)
Plant #1 Materials Handling	2.65	1.18	0.74	-	-	-	-	-	-	-
Plant #1 Fugitives	0.16	0.07	0.07	-	-	-	-	-	-	-
Plant #1 Total	1390.5	1391.2	1390.7	0.23	38.1	32	2.1	46005	0.72	
Plant #2 Scarfer	98.55	98.55	98.55	-	-	-	-	-	-	-
Plant #2 Cutting torches	2.42	2.42	2.42	-	-	-	-	-	0.013	0.007 (Mn)
Plant #2 Scarfer Combustion	0.01	0.05	0.05	0.004	0.657	0.552	0.036	793	negl	0.012 (hexane)
Plant #2 Total	100.98	101.02	101.02	0.004	0.657	0.552	0.036	793	0.013	
Source Total	1491.5	1492.2	1491.7	0.23	38.8	32.6	2.1	46,798	<0.74	

Controlled/limited PTE (tons/yr)										
Process ID/facility	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	VOC	GHG	Combined HAP	Single HAP
Plant #1 Rotary Dryer	21.50	10.82	10.82	-	-	-	-	-	-	-
Plant #1 Rotary Dryer Combustion	0.72	2.90	2.90	0.23	38.1	32	2.1	46,005	0.72	0.69 (hexane)
Plant #1 Materials Handling	2.61	1.17	0.74	-	-	-	-	-	-	-
Plant #1 Fugitives	0.16	0.07	0.07	-	-	-	-	-	-	-
Plant #1 Total	24.99	14.96	14.53	0.23	38.1	32	2.1	46,005	0.72	
Plant #2 Scarfer	22.56	12.53	4.93	-	-	-	-	-	-	-
Plant #2 Cutting torches	2.41	2.41	2.41	-	-	-	-	-	0.013	0.007 (Mn)
Plant #2 Scarfer Combustion	0.01	0.05	0.05	0.004	0.697	0.552	0.036	793	negl	0.012 (hexane)
Plant #2 Total	24.98	14.99	7.39	0.004	0.70	0.55	0.04	793.00	0.013	
Source Total	50.0	30.0	21.9	0.23	38.8	32.6	2.1	46,798	<0.74	

Appendix A: Emission Calculations
Potential Particulate Emissions from Plant #1: Rotary Drum Dryer Operations

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: October 1, 2010

Operation/Location	Control Device	Outlet Grain Loading (gr/dscf)	Maximum Air Flow Rate (scfm)	Control Efficiency (%)	PTE of PM/PM ₁₀ /PM _{2.5} After Control* (lbs/hr)	PTE of PM/PM ₁₀ /PM _{2.5} After Control (tons/yr)	PTE of PM/PM ₁₀ /PM _{2.5} Before Control (lbs/hr)	PTE of PM/PM ₁₀ /PM _{2.5} Before Control* (tons/yr)	PSD Minor PM Limit (tons/yr)	PSD Minor PM ₁₀ Limit (tons/yr)
Plant #1 Rotary Dryer 3236 Watling St.	Baghouse	0.010	36,000	99.0%	3.17	13.87	316.6	1387	21.50	10.85
Total					3.17	13.87	317	1,387		

* Results based on baghouse stack testing by Guenther/Shackelford Associates on November 22 and 23, 1994.

Assume PM = PM₁₀ = PM_{2.5} emissions.

Methodology

PTE of PM/PM₁₀/PM_{2.5} After Control (lbs/hr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 (mins/hr) x 1/7000 (lb/gr)

PTE of PM/PM₁₀/PM_{2.5} After Control (tons/yr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 (mins/hr) x 1/7000 (lb/gr) x 8760 (hrs/yr) x 1 ton/2000 lbs

PTE of PM/PM₁₀/PM_{2.5} Before Control (lbs/hr) = PTE of PM/PM₁₀/PM_{2.5} After Control (lbs/hr) / (1-Control Efficiency%)

PTE of PM/PM₁₀/PM_{2.5} Before Control (tons/yr) = PTE of PM/PM₁₀/PM_{2.5} After Control (tons/yr) / (1-Control Efficiency%)

Appendix A: Emissions Calculations
Plant #1 Rotary Drum Dryer Natural Gas Combustion Only
MM BTU/HR <100

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

Heat Input Capacity MMBtu/hr	HHV mmBtu	Potential Throughput MMCF/yr
87.0	1000	762.1

	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.72	2.90	0.23	38.11	2.10	32.01

*PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 4 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Plant #1 Rotary Drum Dryer Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	8.002E-04	4.573E-04	2.858E-02	6.859E-01	1.296E-03
Total Organic HAP =					7.170E-01

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.905E-04	4.192E-04	5.335E-04	1.448E-04	8.002E-04
Total Metal HAP =					2.088E-03
Total HAP =					0.72

Methodology is the same as page 3.
 The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 5 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations
Plant #1 Rotary Drum Dryer Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

Greenhouse Gas			
Emission Factor in lb/MMcf	CO2 120000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	45727.2	0.876438	0.838332
Summed Potential Emissions in tons/yr	45728.91477		
CO2e Total in tons/yr	46005.48812		

Methodology
 The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Plant #1 Rotary Drum Dryer Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	45727.2	0.876438	0.838332
Summed Potential Emissions in tons/yr	45728.91477		
CO2e Total in tons/yr	46005.48812		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 $\text{Emission (tons/yr)} = \text{Throughput (MMCF/yr)} \times \text{Emission Factor (lb/MMCF)} / 2,000 \text{ lb/ton}$
 $\text{CO2e (tons/yr)} = \text{CO2 Potential Emission ton/yr} \times \text{CO2 GWP (1)} + \text{CH4 Potential Emission ton/yr} \times \text{CH4 GWP (21)} + \text{N2O Potential Emission ton/yr} \times \text{N2O GWP (310)}.$

**Appendix A: Emission Calculations
Potential PM/PM₁₀/PM_{2.5} Emissions
from Plant #1 Materials Handling**

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
Part 70 Permit No.: T089-29587-00358
Reviewer: Donald McQuigg
Date: June 15, 2011

Maximum Throughput Rate:

60	(tons/hr)
----	-----------

Plant #1 Process	***Number of Units	PM ₁₀ Emission Factor (lbs/ton)	Unlimited PTE of PM ₁₀ (lbs/hr/unit)	Unlimited PTE of PM ₁₀ (tons/yr)	PM _{2.5} Emission Factor (lbs/ton)	Unlimited PTE of PM _{2.5} (lbs/hr/unit)	Unlimited PTE of PM _{2.5} (tons/yr)	PM Emission Factor (lbs/ton)	Unlimited PTE of PM (lbs/hr/unit)	Unlimited PTE of PM (tons/yr)
*Raw material transfer	1	0.000430	0.026	0.113	0.000280	0.017	0.074	0.000880	0.053	0.231
**Raw material conveyor with two (2) transfer points	2	0.000046	0.003	0.024	0.000013	0.001	0.007	0.000140	0.008	0.074
**Rotating screen on dryer	1	0.000740	0.044	0.194	0.000050	0.003	0.013	0.002200	0.132	0.578
** Dryer screen conveyor transfer point	1	0.000046	0.003	0.012	0.000013	0.001	0.003	0.000140	0.008	0.037
**Vibrating screen (fines)	1	0.002200	0.132	0.578	0.002200	0.132	0.578	0.003600	0.216	0.946
** Vibrating screen conveyor with two (2) transfer points	2	0.000046	0.003	0.024	0.000013	0.001	0.007	0.000140	0.008	0.074
Pug Mill #1 and #2 with four (4) transfer points	4	0.000046	0.003	0.048	0.000013	0.001	0.014	0.000140	0.008	0.147
Four (4) material silos with eight (8) transfer points	8	0.000046	0.003	0.097	0.000013	0.001	0.027	0.000140	0.008	0.294
One (1) blend Silo with two (2) transfer points	2	0.000046	0.003	0.024	0.000013	0.001	0.007	0.000140	0.008	0.074
**Bulk sack truck unloading	1	0.000016	0.001	0.004	0.000016	0.001	0.004	0.000034	0.002	0.009
**Briquette product conveyor with four (4) transfer points	4	0.000046	0.003	0.048	0.000013	0.001	0.003	0.000140	0.008	0.147
Total	27			1.17			0.74			2.61

* The emission factor (EF) for the feeder is the one for low silt batch drop from iron and steel mill in AP-42, Table 12.5-4 (10/86). Since the moisture content is greater than 1.5% in the received material, the emission factor is equivalent to the controlled emission factor with wet suppression (EF = Uncontrolled EF x (1-90%)).

** Since the material processed has a moisture content greater than 1.5%, the uncontrolled EF for the screening operations and the conveyor transfer points are equivalent to the controlled EF in AP-42, Chapter 11.19.2, Table 11.19.2-2 (01/95). Assume TSP emission factors equal to PM emission factors.

*** The process flow diagram of a sister company (Braddock Recovery, Inc.) was used for conveyor transfer points and screening configuration.

Methodology

Unlimited PTE (lbs/hr/unit) = Maximum Throughput (tons/hr/unit) x Emission Factor (lb/ton)

Unlimited PTE (tons/yr) = Unlimited PTE (lbs/hr/unit) x Number of Units x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations
PM/PM₁₀/PM_{2.5} Potential Emissions
From the Raw Material Storage Pile (Fugitive Emissions)**

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
Part 70 Permit No.: T089-29587-00358
Reviewer: Donald McQuigg
Date: June 15, 2011

1. Emission Factors:

According to AP42, Chapter 13.2.4 - Aggregate Handling and Storage Piles (01/95), the emission factor of PM for aggregate handling process can be estimated using the following equation:

$$Ef = \frac{.0032 \times (U/5)^{1.3} \times k}{(M/2)^{1.4}}$$

where:

Ef = Emission Factor (lbs/ton)
 k = Particle size multiplier = 0.74 for PM and 0.35 for PM₁₀
 U = Mean wind speed (mph) = 12 mph
 M = Moisture content (%) = 12 % uncontrolled (moisture content for material as received)

2. Potential to Emit PM/PM₁₀/PM_{2.5}:

Maximum Throughput Rate:
 (tons/hr)

Pollutant	Uncontrolled PTE		
	PM	PM ₁₀	PM _{2.5}
*Emission Factor (lbs/ton)	0.0006	0.0003	0.0003
Potential to Emit (tons/yr)	0.16	0.07	0.07

* Emission factors are calculated using the equation above.

Methodology

Assume PM₁₀ equals PM_{2.5}

Uncontrolled PTE (tons/yr) = Max. Throughput (tons/hr) x Uncontrolled Emission Factor (lb/ton) x 8760 hr/yr x 1 ton/2000 lbs

Appendix A: Emissions Calculations
Potential Particulate Matter Emissions from Plant #2 Scarfing Operation

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: February 24, 2011

Operation/Location	Emission Factor* (lbs/ton)	Max. Quantity of Material (tons/hr)	Max. Uncontrolled PM Emissions (tons/yr)	Baghouse Collection Efficiency (%)	Max. Controlled PM Emissions (lbs/hr)	Max. Controlled PM Emissions (tons/yr)	326 IAC 6.8-1-2(a) Limit** (tons/yr)	PSD Minor PM Limit (tons/yr)	PSD Minor PM ₁₀ Limit (tons/yr)
Plant #2 Slab Scarfer 3236 Watling St.	0.1	225	98.55	95.0%	1.13	4.93	40.55	22.56	12.53

Methodology:

*Emission Factor obtained from AP 42, Ch 12.5, Table 12.5-1

** 326 IAC 6.8-1-2(a) emission limit of 0.03 gr/scf converted to tons/yr at design flow rate of 36,000acfm

Uncontrolled Emissions (tons/yr) = Max. Quantity of Material (tons/hr)*8760 (hrs/yr)*Emission Factor (lbs/ton)/2000 (lbs/ton)

Controlled Emissions (tons/yr) = Uncontrolled Emissions (tons/yr)*(1-Control Efficiency)

Appendix A: Emissions Calculations
Plant #2 Scarfer Natural Gas Combustion Only
MM BTU/HR <100

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
1.5	1000	13.1

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.012	0.050	0.004	0.657	0.036	0.552

*PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 10 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Plant #2 Scarfer Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.380E-05	7.884E-06	4.928E-04	1.183E-02	2.234E-05

Total Organic HAP= 1.236E-02

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.285E-06	7.227E-06	9.198E-06	2.497E-06	1.380E-05

Total Metal HAP = 3.600E-05
 Total HAP = 1.240E-02

Methodology is the same as page 9.
 The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 11 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations
Plant #2 Scarfer Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

Greenhouse Gas			
Emission Factor in lb/MMcf	CO2 120000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	788.4	0.015111	0.014454
Summed Potential Emissions in tons/yr	788.429565		
CO2e Total in tons/yr	793.198071		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
 Plant #2 Scarfer Natural Gas Combustion Only
 MM BTU/HR <100
 Greenhouse Gas Emissions**

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
 Address: 3236 Watling Street, East Chicago, IN 46312
 Part 70 Permit No.: T089-29587-00358
 Permit Reviewer: Donald McQuigg
 Date: December 15, 2010

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	788.4	0.015111	0.014454
Summed Potential Emissions in tons/yr	788.429565		
CO2e Total in tons/yr	793.198071		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 $Emission (tons/yr) = Throughput (MMCF/yr) \times Emission Factor (lb/MMCF) / 2,000 lb/ton$
 $CO2e (tons/yr) = CO2 Potential Emission ton/yr \times CO2 GWP (1) + CH4 Potential Emission ton/yr \times CH4 GWP (21) + N2O Potential Emission ton/yr \times N2O GWP (310).$

Appendix A: Emissions Calculations
Particulate Matter Emissions from Manual Torch Cutting

Company Name: Harsco Metals Americas, a division of Harsco Corporation - a contractor of ArcelorMittal USA, Inc.
Address City IN Zip: 3236 Watling Street, MC#2-350, East Chicago, IN 46312
Part 70 Permit No.: T089-29587-00358
Permit Reviewer: Donald McQuigg
Date: February 24, 2011

Maximum cutting = 29784 kin/yr								
Facility/Operation	PM/PM ₁₀ Emission Factor (lbs/kin)	Mn Emission Factor (lbs/kin)	Ni Emission Factor (lbs/kin)	Cr Emission Factor (lbs/kin)	Uncontrolled PM/PM ₁₀ Emissions (tons/yr)	Uncontrolled Mn Emissions (tons/yr)	Uncontrolled Ni Emissions (tons/yr)	Uncontrolled Cr Emissions (tons/yr)
manual torch cutting/burning	0.1622	0.0005	0.0001	0.0003	2.415	0.007	0.001	0.004
Total HAP =							0.013	

*Pursuant to 326 IAC 6-3-1(b)(10), maximum cutting allowable for exempt status

Methodology:

PM=PM₁₀

Maximum cutting (kin/yr) = 3,400 in/hr x 8760 hr/yr x kin/1000 inches

Assumed oxyacetylene torch used for cutting/burning of carbon steel

Uncontrolled Emissions (tons/yr) = Emission Factor (lbs/kin)*Max cutting (kin/yr)/2000 (lbs/ton)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Commissioner

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

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

TO: Dave Woolaghan
Harsco Metals Americas, a contractor of ArcelorMit
3210 Watling St, MC 2-350
East Chicago, IN 46312

DATE: December 30, 2011

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

SUBJECT: Final Decision
Title V
089-29587-00358

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:
Tim Jackson Ops Dir Harsco Metals Americas, a contractor of ArcelorMittal
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

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Toll Free (800) 451-6027
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December 30, 2011

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: Harsco Metals Americas, a contractor of ArcelorMittal

Permit Number: 089-29587-00358

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

TO: Interested Parties / Applicant

DATE: December 30, 2011

RE: Harsco Metals Americas, a contractor of ArcelorMittal 00316 / 089-29587-00358

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

In order to conserve paper and reduce postage costs, IDEM's Office of Air Quality is now sending many permit decisions on CDs in Adobe PDF format. The enclosed CD contains information regarding the company named above.

This permit is also available on the IDEM website at:
<http://www.in.gov/ai/appfiles/idem-caats/>

If you would like to request a paper copy of the permit document, please contact IDEM's central file room at:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

Please Note: *If you feel you have received this information in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV.*

Enclosures
CD Memo.dot 11/14/08

Mail Code 61-53

IDEM Staff	CDENNY 12/30/2011 Harsco Metals Americas, a contractor of ArcelorMittal 089-29587-00358 (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	

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1		Dave Woolaghan Harsco Metals Americas, a contractor of ArcelorMit 3210 Watling St, MC 2-350 East Chicago IN 46312 (Source CAATS)										
2		Tim Jackson Ops Dir Harsco Metals Americas, a contractor of ArcelorMit 5222 Indianapolis Blvd East Chicago IN 46312 (RO CAATS)										
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
4		Indiana State Representative 2nd District 4114 Butternut St East Chicago IN 46312 (Legislator)										
5		East Chicago Public Library 2401 E Columbus Dr East Chicago IN 46312-2998 (Library)										
6		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
7		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
8		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
9		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
10		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
11		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
12		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
13		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
14		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
15		Responsible Official Mittal Steel 3210 Watling St. East Chicago IN 46312-1610 (source - addl contact)										

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											Remarks
1		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)									
2		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)									
3		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)									
4		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)									
5		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)									
6		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)									
7		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)									
8		Ronald R. Weszely Valparaiso Safety & Environmental Consultants, Inc 653 West 23rd Street #302 Panama City FL 32405 (Consultant)									
9		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)									
10		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)									
11		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)									
12		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
13											
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