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: June, 24, 2009

RE: Phoenix Services, LLC / 089-27217-00538

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07

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Mr. Tony Cunningham
Phoenix Services, LLC
204 W. Lincolnway, Suite 2
PO Box 449
Valparaiso, IN 46383-0449

June 24, 2009

Re: 089-27217-00538
Significant Source Modification to:
Part 70 Permit No.: T089-7099-00318

Dear Mr. Cunningham:

ArcelorMittal Indiana Harbor, LLC was issued Part 70 Operating Permit (T089-7099-00318) on December 7, 2004 for an integrated steel mill. An application to modify the source was received from Phoenix Services, LLC (Plant ID 089-00538) on December 3, 2008 for a steel slag processing operation. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

(a) One (1) stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) vibrating grizzly feeder, identified as F1, with a maximum capacity of 1000 tons per hour;

(2) One (1) 150-ton storage bin, identified as F2, with a maximum capacity of 800 tons per hour;

(3) One (1) 50-ton storage bin, identified as F3, with a maximum capacity of 800 tons per hour;

(4) One (1) jaw crusher, identified as CR1, with a maximum capacity of 300 tons per hour;

(5) One (1) conveyor, identified as C1, with a maximum capacity of 1250 tons per hour;

(6) One (1) conveyor, identified as C2, with a maximum capacity of 1000 tons per hour;

(7) Two (2) conveyors, identified as C3 and C4, each with a maximum capacity of 750 tons per hour;

(8) Two (2) conveyors, identified as C5 and C6, each with a maximum capacity of 300 tons per hour;

(9) Ten (10) conveyors, identified as C7 through C17, each with a maximum capacity of 500 tons per hour;

(10) Three (3) drop balls, identified as DB1, DB2, and DB3, each with a maximum capacity of 500 tons per hour; and

(11) Two (2) magnets, identified as M1 and M2, each with a maximum capacity of 500 tons per hour.

(b) One (1) portable slag crushing operation, approved for construction in 2009, identified as Portable Crushing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PC-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PC-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) crusher, identified as PC-CR1, with a maximum capacity of 250 tons per hour; and

(4) One (1) conveyor, identified as PC-C3, with a maximum capacity of 250 tons per hour.

(c) One (1) portable slag screening operation, approved for construction in 2009, identified as Portable Screening, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PS-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PS-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) conveyor, identified as PS-C2, with a maximum capacity of 250 tons per hour;

(4) One (1) screen, identified as PS-S1, with a maximum capacity of 250 tons per hour; and

(5) Three (3) conveyors, identified as PS-C3, PS-C4, and PS-C5, each with a maximum capacity of 250 tons per hour.

(d) Associated storage piles, loading and unloading of trucks, and road traffic.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

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

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

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

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

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

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to receiving the source's Part 70 Operating Permit, which will include the required operation conditions.

The source may begin construction when the source modification has been issued. The source must comply with the requirements of 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12 before operation of any of the proposed emission units can begin.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, and ask for John Haney or extension 4-5328, or dial (317) 234-5328.

Sincerely,

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments
DFR/jeh
cc: File – Lake County
U.S. EPA, Region V
Lake County Health Department
Northwest Regional Office
Compliance and Enforcement Branch

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PART 70 SIGNIFICANT SOURCE MODIFICATION
OFFICE OF AIR QUALITY

Phoenix Services, LLC
a contractor of ArcelorMittal Indiana Harbor, LLC
3001 Dickey Road
East Chicago, Indiana 46312

(herein known as the Permittee) is hereby authorized to construct and 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.

1st Significant Source Modification No.: 089-27217-00538	
Issued by: Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 24, 2009

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary steel slag processing operation.

Source Address:	3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address:	204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
General Source Phone Number:	219-464-2582
SIC Code:	3295
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for $PM_{2.5}$ standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Emission Offset Rules Major Source, under Nonattainment NSR Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

(a) One (1) stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) vibrating grizzly feeder, identified as F1, with a maximum capacity of 1000 tons per hour;

(2) One (1) 150-ton storage bin, identified as F2, with a maximum capacity of 800 tons per hour;

(3) One (1) 50-ton storage bin, identified as F3, with a maximum capacity of 800 tons per hour;

(4) One (1) jaw crusher, identified as CR1, with a maximum capacity of 300 tons per hour;

(5) One (1) conveyor, identified as C1, with a maximum capacity of 1250 tons per hour;

(6) One (1) conveyor, identified as C2, with a maximum capacity of 1000 tons per hour;

(7) Two (2) conveyors, identified as C3 and C4, each with a maximum capacity of 750 tons per hour;

(8) Two (2) conveyors, identified as C5 and C6, each with a maximum capacity of 300 tons per hour;

(9) Ten (10) conveyors, identified as C7 through C17, each with a maximum capacity of 500 tons per hour;

(10) Three (3) drop balls, identified as DB1, DB2, and DB3, each with a maximum capacity of 500 tons per hour; and

(11) Two (2) magnets, identified as M1 and M2, each with a maximum capacity of 500 tons per hour.

(b) One (1) portable slag crushing operation, approved for construction in 2009, identified as Portable Crushing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PC-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PC-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) crusher, identified as PC-CR1, with a maximum capacity of 250 tons per hour; and

(4) One (1) conveyor, identified as PC-C3, with a maximum capacity of 250 tons per hour.

(c) One (1) portable slag screening operation, approved for construction in 2009, identified as Portable Screening, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PS-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PS-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) conveyor, identified as PS-C2, with a maximum capacity of 250 tons per hour;

(4) One (1) screen, identified as PS-S1, with a maximum capacity of 250 tons per hour; and

(5) Three (3) conveyors, identified as PS-C3, PS-C4, and PS-C5, each with a maximum capacity of 250 tons per hour.

(d) Associated storage piles, loading and unloading of trucks, and road traffic.

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

This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1(21).

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

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T089-27232-00538, 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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

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

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

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

(b) One (1) certification shall be included, using the attached Certification Form, 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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within 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 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 the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

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

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

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

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

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

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

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed 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 T089-27232-00538 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 combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits 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, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the 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 5-1-3 (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 or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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 Dust Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (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 average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

(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) 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.

(i) 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.

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

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

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

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

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

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

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

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

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee 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 Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

(a) Pursuant to 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 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 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, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP, if required, is a violation of 326 IAC 6.8.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 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.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

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

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

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

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

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.16 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require the certification by the "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.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

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

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

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

The statement must be submitted to:

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

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

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

C.19 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

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

(1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

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

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

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

C.20 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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

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

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

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

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

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

(g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

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

(2) The annual emissions calculated in accordance with (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 deems fit to include in this report.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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

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

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) vibrating grizzly feeder, identified as F1, with a maximum capacity of 1000 tons per hour;

(2) One (1) 150-ton storage bin, identified as F2, with a maximum capacity of 800 tons per hour;

(3) One (1) 50-ton storage bin, identified as F3, with a maximum capacity of 800 tons per hour;

(4) One (1) jaw crusher, identified as CR1, with a maximum capacity of 300 tons per hour;

(5) One (1) conveyor, identified as C1, with a maximum capacity of 1250 tons per hour;

(6) One (1) conveyor, identified as C2, with a maximum capacity of 1000 tons per hour;

(7) Two (2) conveyors, identified as C3 and C4, each with a maximum capacity of 750 tons per hour;

(8) Two (2) conveyors, identified as C5 and C6, each with a maximum capacity of 300 tons per hour;

(9) Ten (10) conveyors, identified as C7 through C17, each with a maximum capacity of 500 tons per hour;

(10) Three (3) drop balls, identified as DB1, DB2, and DB3, each with a maximum capacity of 500 tons per hour; and

(11) Two (2) magnets, identified as M1 and M2, each with a maximum capacity of 500 tons per hour.

(b) One (1) portable slag crushing operation, approved for construction in 2009, identified as Portable Crushing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PC-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PC-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) crusher, identified as PC-CR1, with a maximum capacity of 250 tons per hour; and

(4) One (1) conveyor, identified as PC-C3, with a maximum capacity of 250 tons per hour.

(c) One (1) portable slag screening operation, approved for construction in 2009, identified as Portable Screening, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PS-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PS-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) conveyor, identified as PS-C2, with a maximum capacity of 250 tons per hour;

(4) One (1) screen, identified as PS-S1, with a maximum capacity of 250 tons per hour; and

(5) Three (3) conveyors, identified as PS-C3, PS-C4, and PS-C5, each with a maximum capacity of 250 tons per hour.

(d) Associated storage piles, loading and unloading of trucks, and road traffic.

(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 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

(a) Pursuant to 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR):

(1) The aggregate input to the stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, shall be less than 2,022,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(2) The combined aggregate input to the portable slag crushing and slag screening operations, approved for construction in 2009, identified as Portable Crushing and Portable Screening, shall be less than 340,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) Pursuant to 326 IAC 2-2 (PSD) and SSM 089-27217-00538, the following units shall be permanently removed from operation in order to obtain the necessary credit for netting requirements. The following units' operational approval was revoked under 089-27773-00341:

MultiServ Slag Operations

(1) Main Slag Processing Plant consisting of the following emission units:
- (A) One (1) Boliden Allis 6' X 10' Feeder
- (B) One (1) Boliden Allis 7' X 10' Grizzly
- (C) One (1) Boliden Allis 6' X 11' Feeder
- (D) One (1) 42" X 129' Main Feed Belt conveyor
- (E) One (1) Boliden 6' X 8" Feeder
- (F) One (1) Stearns 60" X 84" Magnet Drum
- (G) Three (3) Boliden Allis 4' X 12' Feeders
- (H) One (1) Boliden Allis 6' X 20' Double Deck Screen
- (I) One (1) 36" X 60' Metallics Product Conveyor
- (J) One (1) 36" X 16' Metallics Transfer Conveyor

(K) One (1) 36" X 100' Metallics Feed Conveyor
(L) Two (2) Stearns 42 X 60 Magnet Drums
(M) Three (3) conveyors
(N) Two (2) screens
(O) Two (2) 24" X 60' Metallics Product Conveyors
(P) One (1) 36" X 95' Metallics Feed Conveyor
(Q) One (1) 24" X 35' Slag Transfer Conveyor
(R) One (1) 24" X 60' Slag Recirculating Conveyor
(S) One (1) 42" x 137' Slag Feed Conveyor
(T) One (1) Boliden Allis 8' X 20' Double Deck Screen
(U) One (1) 36"X 75' Slag Conveyor
(V) One (1) 24" X 60' Slag Transfer Conveyor
(W) One (1) 24" X 80' Slag Product Conveyor
(X) One (1) 36" X 80' Slag Feed Conveyor
(Y) One (1) PEP 6' X 18' Vari-Vibe III Single Deck Screen
(Z) Two (2) 24" X 80' Slag Product Conveyors
(AA) One (1) 36" X 84' Slag Conveyor
(BB) One (1) Pendulum Magnet
(CC) One (1) 36' X 34' – 6 Reversing Conveyor
(DD) One (1) 54" Eljay Crusher
(EE) One (1) 24" X 44' Crusher Recirculating Conveyor
(FF) Aggregate Storage Piles with total capacity of 2,000,000 tons

(2) CM-13 Processing Plant consisting of the following emission units:
(A) The following constructed in 1993:
(i) One (1) 48' X 60' Feeder
(ii) Two (2) AC 4' X 12' Feeders
(iii) One (1) Dings 36" X 60" Magnet Drum
(iv) One (1) PEP Screen
(v) One (1) Tyler 6' X 20' Double Deck Screen
(vi) One (1) 36" X 75' Conveyor
(vii) Two (2) 24" X 30' Conveyors
(viii) One (1) 36" X 85' Conveyor
(ix) One (1) 24" X 100' Conveyor
(x) One (1) 36 " X 20' Conveyor
(xi) Three (3) 36" X 60' Conveyors
(xii) One (1) 42" X 18' Conveyor
(xiii) One (1) slag crushing circuit consisting of one (1) crusher identified as ID-26 and six (6) conveyor transfers identified as ID-22, ID-23, ID-24, ID-25, ID-27 and ID-28, respectively.
(xiv) Aggregate Storage Piles with total capacity of 1,000,000 tons
(B) Portable Crushing Plant, consisting of the following:
(i) One (1) crusher
(ii) One (1) screen
(iii) Six (6) conveyor transfer points
(iv) One (1) industrial diesel engine, with a maximum heat input of 0.573 MMBTU/HR

(3) Kish Processing Plant consisting of the following emission units:
(A) Two (2) raw material feeders
(B) Three (3) conveyors
(C) One (1) Drum Magnet
(D) One (1) double screen
(E) Five (5) conveyors
(F) Aggregate Storage Piles with total capacity of 1,000,000 tons

Removal of these units shall reduce the PM emissions by 21.71 tons per twelve (12) consecutive month period. The shutdown of these units shall be permanent.

Compliance with these limitations will ensure that the potential to emit from this modification is less than twenty-five (25) tons of PM per year, less than fifteen (15) tons of PM_{10} per year, and less than ten (10) tons of $PM_{2.5}$ per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable.

D.1.2 Particulate Matter Less Than 10 Microns in Diameter (PM_{10}) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a), the following emission units shall not exceed 0.03 gr/dscf of particulate matter less than ten microns in diameter (PM_{10}):

Storage Piles, Truck Loading & Unloading, and Transporting (Road Emissions), Grizzly Feeder (F1), Bin (F2), Bin (F3), Crusher (CR1), Screen (S1), Screen (S2), Conveyor (C1), Conveyor (C2), Conveyor (C3), Conveyor (C4), Conveyor (C5), Conveyor (C6), Conveyor (C7), Conveyor (C8), Conveyor (C9), Conveyor (C10), Conveyor (C11), Conveyor (C12), Conveyor (C13), Conveyor (C14), Conveyor (C15), Conveyor (C16), Conveyor (C17), Drop Ball (DB1), Drop Ball (DB2), Magnet (M1), Magnet (M2), Feed Bin (PC-F1), Feed Conveyor (PC-C1), Crusher (PC-CR1), Conveyor (PC-C3), Feed Bin (PS-F1), Feed Conveyor (PS-C1), Conveyor (PS-C2), Screen (PS-S1), Conveyor (PS-C3), Conveyor (PS-C4), and Conveyor (PS-C5).

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.

Compliance Determination Requirements

D.1.4 Particulate Control [326 IAC 2-2]

In order to ensure compliance with Conditions D.1.1 and D.1.2, the Permittee shall apply an initial application of water or a mixture of water and wetting agent to control the PM, PM_{10} and $PM_{2.5}$ emissions from the crushers, screens, and conveyors. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Conditions D.1.1 and D.1.2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the metallurgical material to ensure it has a moisture content greater than 1.5 percent of the process stream by weight. The Permittee shall submit to IDEM, OAQ the method for moisture content analysis for approval.

D.1.5 Particulate Matter (PM) [326 IAC 6.8-10] [326 IAC 2-2]

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

Opacity from the activities shall be determined as follows:

(a) 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 in plant 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.

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

D.1.6 Visible Emissions Notations

(a) Visible emissions notations of the screen and the conveyor transfer points shall be performed once per day during normal daylight operations. A trained employee will record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C-Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.1.7 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records at the plant of the aggregate input monthly.

(b) To document compliance with Condition D.1.4, the Permittee shall maintain records of the chemical analysis of the metallurgical material, as needed.

(c) To document compliance with Condition D.1.6, the Permittee shall maintain records of visible emission notations of the screen and the conveyor transfer points once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

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

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

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

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

(A) The name and location of the roadway controlled;

(B) Application rate;

(C) Time of each application;

(D) Width of each application;

(E) Identification of each method of application;

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

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

(H) The material data safety sheets for each chemical.

(3) For application of physical or chemical control agents not covered by 326 IAC 6.8-10-1, the following:

(A) The name of the agent;

(B) Location of application;

(C) Application rate;

(D) Total quantity of agent used;

(E) If diluted, percent of concentration; and

(F) The material data safety sheets for each chemical.

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

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

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

D.1.8 Reporting Requirements

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

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

(2) A listing of those control measures.

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

(4) Any corrective action taken.

(b) A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

(c) These reports shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

Source Name: Phoenix Services, LLC
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
Part 70 Permit No.: T089-27232-00538

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

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

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Phoenix Services, LLC
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
Part 70 Permit No.: T089-27232-00538

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

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

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

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Phoenix Services, LLC
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
Part 70 Permit No.: T089-27232-00538
Facility: Main Slag Processing
Parameter: processed aggregate input
Limit: less than 2,022,500 tons per 12 consecutive month period with compliance demonstrated at the end of each month

QUARTER : YEAR:

Month	Total aggregate processed (tons)	Total aggregate processed (tons)	Total aggregate processed (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Phoenix Services, LLC
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
Part 70 Permit No.: T089-27232-00538
Facilities: Portable Crushing, Portable Screening
Parameter: combined processed aggregate input
Limit: less than 340,000 tons per 12 consecutive month period with compliance demonstrated at the end of each month

QUARTER : YEAR:

Month	Total aggregate processed (tons)	Total aggregate processed (tons)	Total aggregate processed (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Source Name: Phoenix Services, LLC
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 204 W. Lincolnway, Suite 2, P.O. Box 449, Valparaiso, Indiana 46383-0449
Part 70 Permit No.: T089-27232-00538

Months: _____ to Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

Page 2 of 2

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

PHOENIX SERVICES, LLC.
EAST CHICAGO AT ARCELORMITTAL
INDIANA HARBOR WEST

FUGITIVE DUST CONTROL PLAN

REVISION 0
JANUARY 2009

Prepared by:
OCS Environmental, Inc.
130 Lincoln Street, Ste. 1
Porter, IN 46304
(219) 983-1400

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Site Map [326 IAC 6.8-10-4(3)(C)]

Process Flow Diagrams [326 IAC 6.8-10-4(3)(D)(iii)]

APPENDICES

Appendix A Calculations for Fugitive Emissions [326 IAC 6.8-10-4(3)(D)(i)-(ii)]

Appendix B Sample Documentation Log

Facility Description [326 IAC 6.8-10-4(3)(A)]

Phoenix Services, LLC. (Phoenix), a contractor of ArcelorMittal-Indiana Harbor West, owns and operates a BOF slag processing facility located within the ArcelorMittal-Indiana Harbor West Works facility in East Chicago, Indiana. ArcelorMittal is a fully integrated steelmaking and finishing facility. Even though the two facilities are considered to be one source due to contractual control, Phoenix will operate under its own Part 70 permit.

Roadways and Parking Lots [326 IAC 6.8-10-4(3)(B)]

All roadways that are under control of the Phoenix facility are approximately 30 feet wide with varying lengths. Figures 1 show the locations and designations of each roadway. Trucks and front-end loaders are utilized for transportation of materials throughout the facility. Appendix A provides a sample of the potential fugitive PM emission calculations for the facility which was included in the facility's Part 70 Permit application.

Storage Piles [326 IAC 6.8-10-4(3)(B)]

Feed materials (pre-processed BOF slag) and product materials (post-processed BOF slag) are stored in various locations on the facility site and product pile locations will move within a general area throughout the year. Figure 1 shows the general locations of these storage areas and the types of materials stored. Front-end loaders and stacking conveyors are used to load onto and load out of the storage piles. The moisture content of the pre-wetted material is normally greater than 3.5% and can be affected by atmospheric precipitation and humidity throughout the year. Appendix A provides a sample of the potential fugitive PM emission calculations for the facility which was included in the facility's Part 70 Permit application.

Material Handling and Process Flow [326 IAC 6.8-10-4(3)(B)]

In this process, slag is moved through a series of crushers and screens via conveyor system. This process starts with all raw materials entering a water station to pre-wet all

materials before processing. Water will also be applied, as needed and weather permitting, at strategic points in the process which provides 90% control efficiency. Figure 2 provides a process flow diagram which was included in the facility's Part 70 Permit application. Appendix A provides a sample of the potential fugitive PM emission calculations for the facility which was included in the facility's Part 70 Permit application.

Control Measures and Practices [326 IAC 6.8-10-4(3)(E)&(F)]

Control measures utilized to control dust have limited application in fugitive sources. This section details measures to be used in the facility to control fugitive emissions. Since water application will be the control measure utilized, application will be suspended based on weather events as follows:

- during periods of precipitation
- when temperatures are at or below freezing
- when ice or snow cover is present.

If chemical application is utilized at some future date, the same weather restrictions will apply. The phrase "weather permitting" used in the following paragraphs herein designates the suspension of control application during the weather events listed above. Additionally, daily visible emission notations will be conducted to monitor fugitive emissions.

Site Roadways / Plant Yard

Dust on unpaved roads will be controlled by applications of water (an acceptable chemical compound may be used in the future) during operating hours, weather permitting. There are no paved roadways in this facility. Applications of dust control material will be done as often as necessary to meet applicable limits.

Process Operations

To help minimize dust emissions, the drop distance at each conveyor transfer point in the plant will be set at the minimum distance in which the equipment can operate effectively.

Water application will be utilized, when needed and weather permitting, at strategic locations throughout the plant to control dust emissions. During water application, caution must be taken to avoid saturating the material which results in blinding the screens or crushers.

Storage Piles

To reduce potential dust emissions, stockpiling will be performed at minimum drop distances, to the extent practicable. Product storage piles are watered on an as needed basis during operating hours, weather permitting.

Loading and Transfer; Trucks and Front-End Loaders

Trucks will be loaded in a manner to reduce or prevent materials from blowing or otherwise escaping. This may be accomplished by loading the vehicle with the center of gravity for the load at a safe distance below the top of the sideboard. Drop heights for front-end loader buckets will be held within a few feet above the sideboard of the truck during loading.

Compliance Schedule [326 IAC 6.8-10-4(3)(G)]

Within 60 days of start up of the facility, Phoenix will implement the provisions of this control plan. This plan will be revised if the as-built facility is different from Revision 0 of the plan which is included in the Part 70 Permit. Any revision to this plan requires an administrative amendment to the Part 70 Permit.

Documentation and Record Keeping [326 IAC 6.8-10-4(4)(A)-(F)]

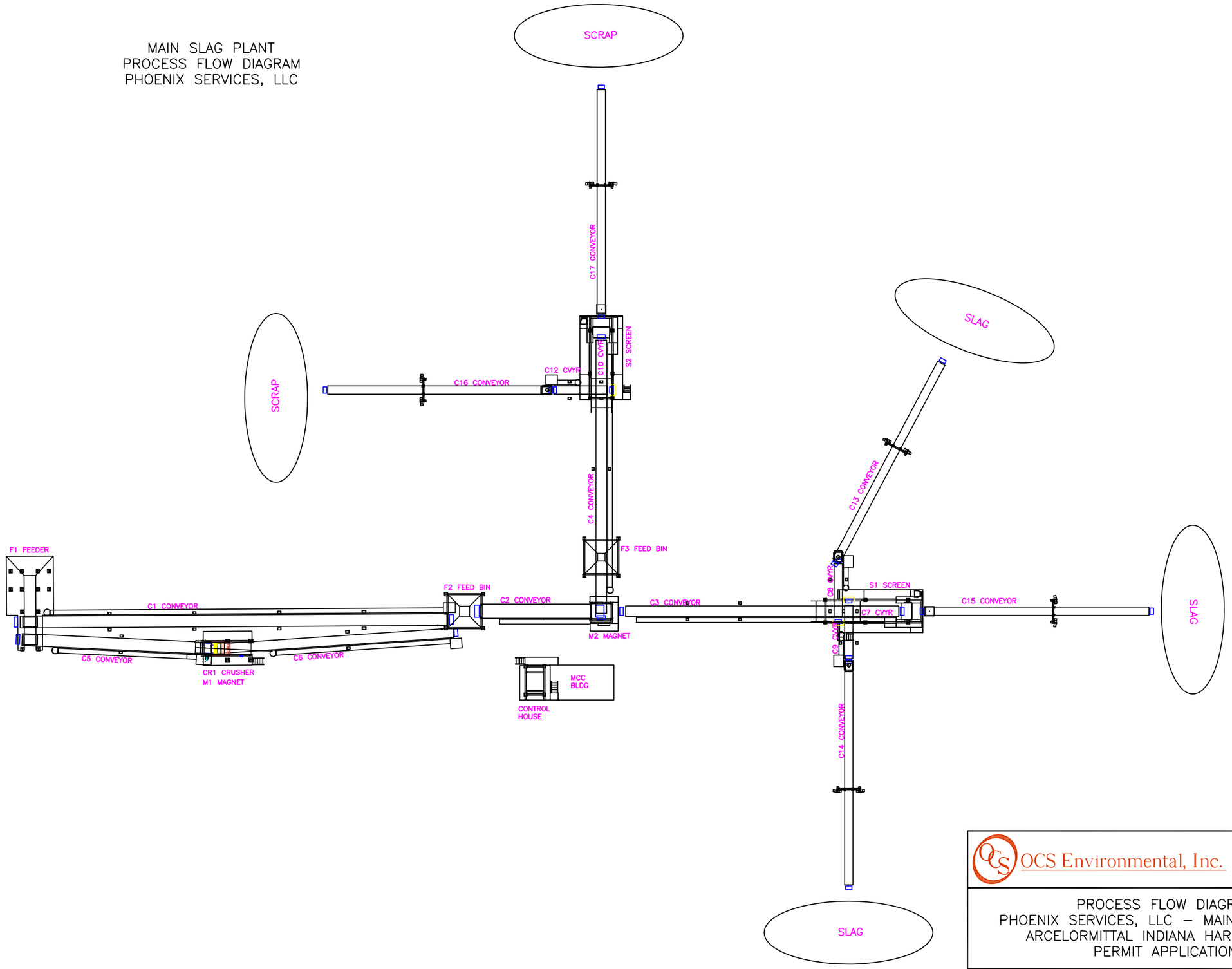
Records will be maintained to document control measures and activities in accordance with this plan. These records may be kept as part of the facility's daily maintenance logs. These records will be available upon the request of the commissioner and shall be retained for five (5) years.

Reporting [326 IAC 6.8-10-4(4)(G)]

Records will be maintained to document control measures and activities in accordance with this plan. These records may be kept as part of the facility's daily maintenance logs. These records will be available upon the request of the commissioner and shall be retained for five (5) years.

FIGURES

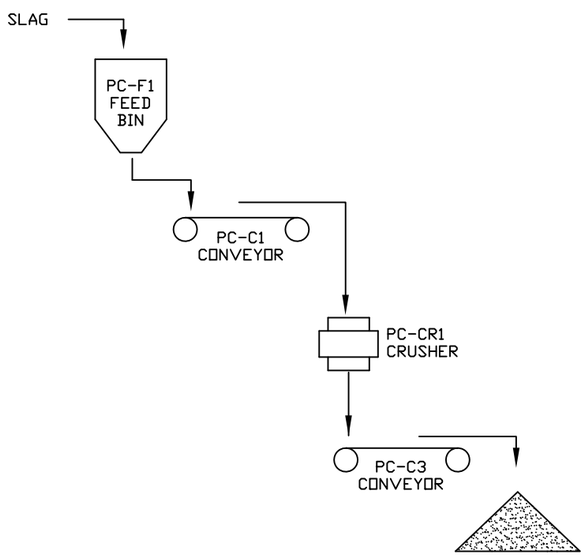
MAIN SLAG PLANT
PROCESS FLOW DIAGRAM
PHOENIX SERVICES, LLC



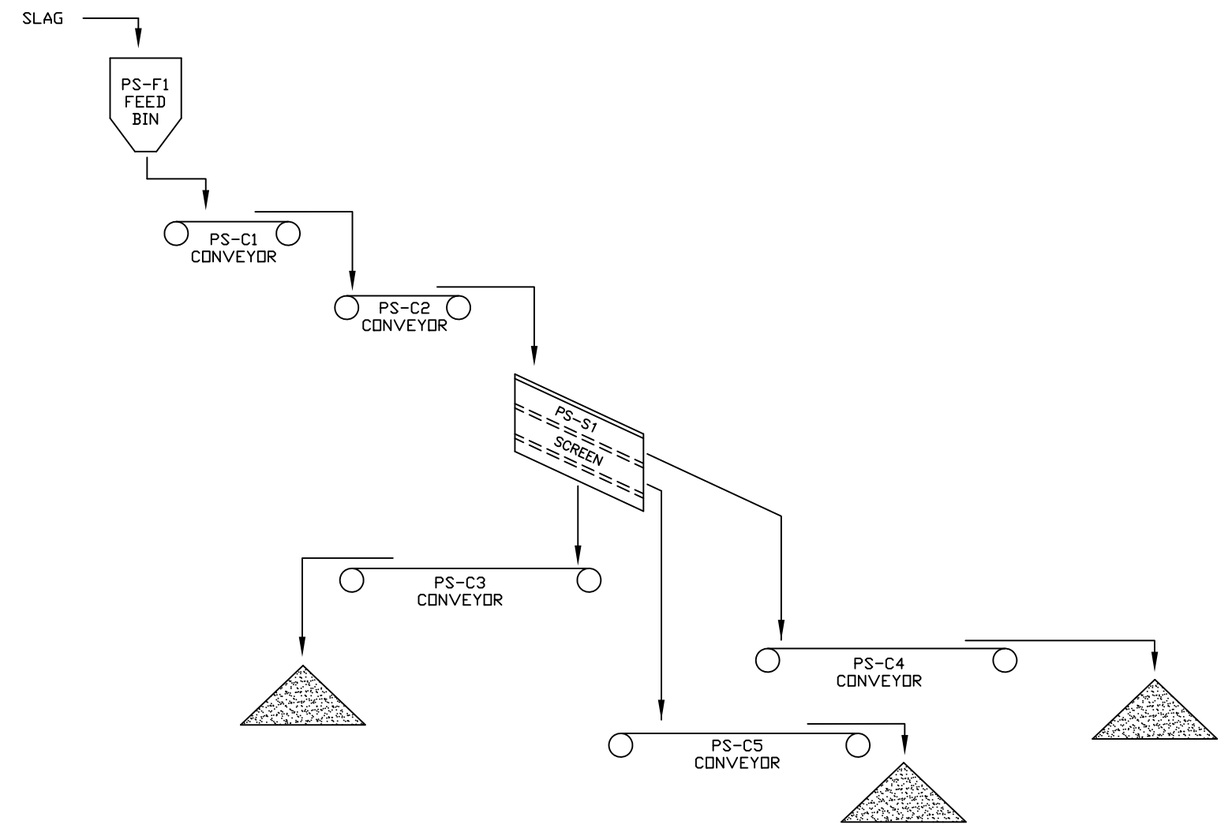
OCS Environmental, Inc.
130 Lincoln Street, Suite 1
Porter, Indiana 46304
Phone - (219) 983-1400
Fax - (219) 983-1414

PROCESS FLOW DIAGRAM
PHOENIX SERVICES, LLC – MAIN SLAG PLANT
ARCELORMITTAL INDIANA HARBOR WEST
PERMIT APPLICATION

DRAWN:	SSG	SCALE:	NOT TO SCALE	DATE:	11/28/08
CHECKED:	LKC	FILE:	20081128 Phoenix IHW PFD.dwg		
SO:	PHOE08001				



PORTABLE CRUSHING OPERATION

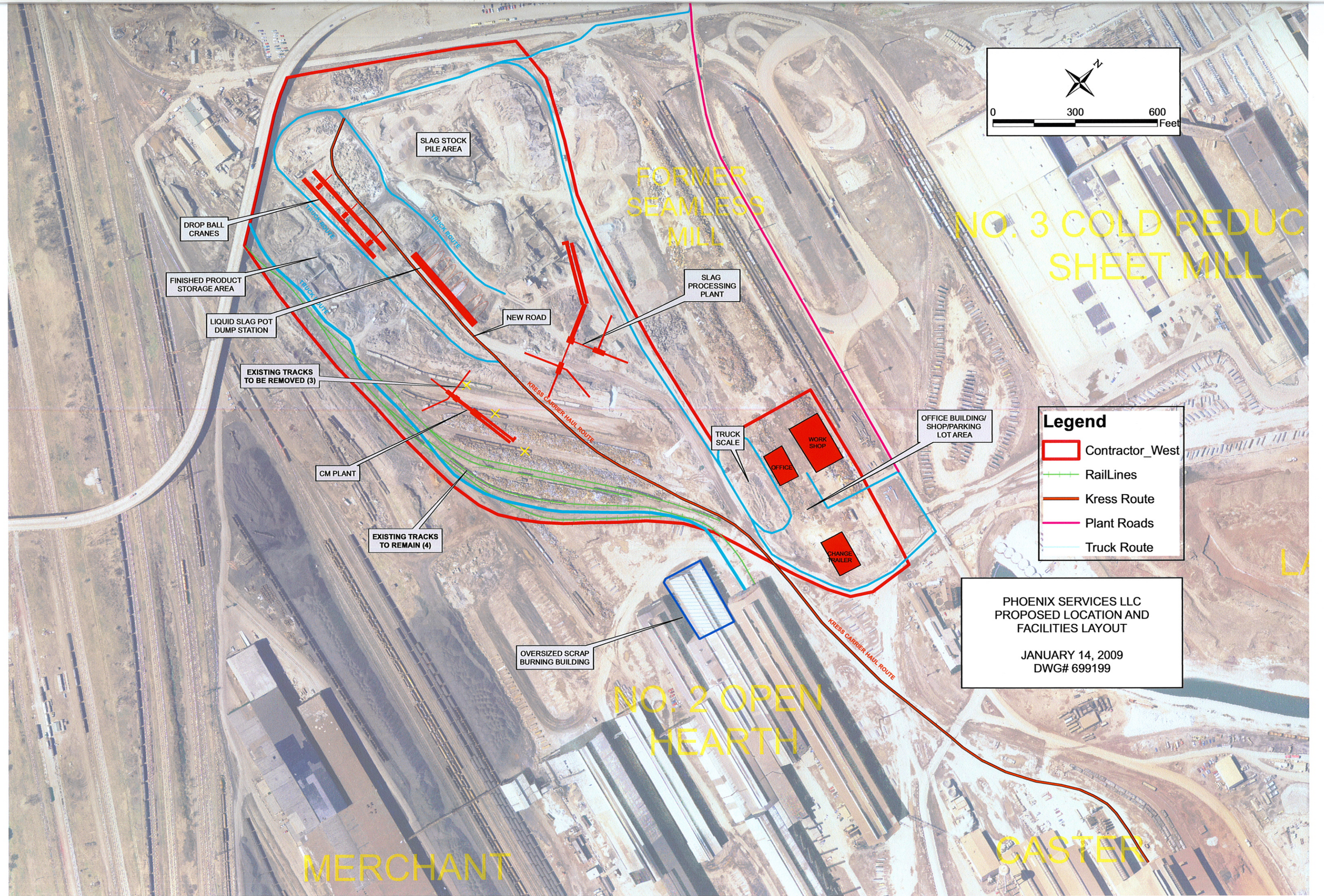


PORTABLE SCREENING OPERATION

OCS Environmental, Inc.
130 Lincoln Street, Suite 1
Porter, Indiana 46304
Phone- (219) 983-1400
Fax - (219) 983-1414

PROCESS FLOW DIAGRAM
PHOENIX SERVICES, LLC – PORTABLE SLAG PLANT
ARCELORMITTAL INDIANA HARBOR WEST
PERMIT APPLICATION

DRAWN: SSG	SCALE: NOT TO SCALE	DATE: 11-28-2008
CHECKED: LKC	FILE: 20081128 Phoenix IHW Portable Slag Plant.dwg	
SO#: PHOE08001		


N
0
300
600
Feet
SLAG STOCK PILE AREA
FORMER SEAMLESS MILL
NO. 3 COLD REDUC SHEET MILL
DROP BALL CRANES
TRUCK ROUTE
TRUCK ROUTE
TRUCK ROUTE
FINISHED PRODUCT STORAGE AREA
LIQUID SLAG POT DUMP STATION
NEW ROAD
SLAG PROCESSING PLANT
EXISTING TRACKS TO BE REMOVED (3)
KRESS CARRIER HAUL ROUTE
CM PLANT
EXISTING TRACKS TO REMAIN (4)
TRUCK SCALE
OFFICE
WORK SHOP
CHANGE TRAILER
OFFICE BUILDING/ SHOP/PARKING LOT AREA
Legend
Contractor_West
RailLines
Kress Route
Plant Roads
Truck Route
PHOENIX SERVICES LLC
PROPOSED LOCATION AND
FACILITIES LAYOUT
JANUARY 14, 2009
DWG# 699199
KRESS CARRIER HAUL ROUTE
OVERSIZED SCRAP BURNING BUILDING
NO. 2 OPEN HEARTH
MERCHANT
CASTER

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	Phoenix Services, LLC, a contractor of ArcelorMittal Indiana Harbor, LLC
Source Location:	3001 Dickey Road, East Chicago, Indiana 46312
County:	Lake
SIC Code:	3295
Significant Source Modification No.:	089-27217-00538
Part 70 Operating Permit No.:	T089-27232-00538
ArcelorMittal Indiana Harbor, LLC Part 70 Operating Permit No.:	T089-7099-00318
Permit Reviewer:	John Haney

Source Definition

ArcelorMittal Indiana Harbor, LLC is an integrated steel mill consisting of a source with on-site contractors:

(a) ArcelorMittal Indiana Harbor, LLC (Plant ID 089-00318), the primary operation, is located at 3001 Dickey Road, East Chicago, Indiana; and

(b) Phoenix Services, LLC (Plant ID 089-00538), the on-site contractor (a steel slag processing operation), is located at 3001 Dickey Road, East Chicago, Indiana.

IDEM has determined that ArcelorMittal Indiana Harbor, LLC and Phoenix Services, LLC are under the common control of ArcelorMittal Indiana Harbor, LLC and therefore will be considered one 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 Indiana Harbor, LLC and Phoenix Services, LLC as one source.

Separate Part 70 Operating permits will be issued to ArcelorMittal Indiana Harbor, LLC and Phoenix Services, LLC solely for administrative purposes. For permitting purposes, ArcelorMittal Indiana Harbor, LLC is assigned Permit No. 089-7099-00318 and Phoenix Services, LLC is assigned Permit No. 089-27232-00538.

Existing Approvals

There have been no previous approvals issued to Phoenix Services, LLC at this existing Part 70 source.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O_3	Nonattainment Subpart 2 Moderate effective June 15, 2004, for the 8-hour ozone standard.[1]
PM_{10}	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.
[1]Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for $PM_{2.5}$.	

(a) Ozone Standards

(1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph as attainment for the 8-hour ozone standard.

(3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

(4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

(i) 1-hour ozone standard

On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO_x threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.

(ii) 8-hour ozone standard

VOC and NO_x emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

(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 law suit 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, and effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 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.

(d) Since this source is classified as an integrated steel mill, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(e) Fugitive Emissions
Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Phoenix Services, LLC on December 3, 2008, relating to the replacement of a steel slag processing operation. The following is a list of the proposed emission units:

(a) One (1) stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) vibrating grizzly feeder, identified as F1, with a maximum capacity of 1000 tons per hour;

(2) One (1) 150-ton storage bin, identified as F2, with a maximum capacity of 800 tons per hour;

(3) One (1) 50-ton storage bin, identified as F3, with a maximum capacity of 800 tons per hour;

(4) One (1) jaw crusher, identified as CR1, with a maximum capacity of 300 tons per hour;

(5) One (1) conveyor, identified as C1, with a maximum capacity of 1250 tons per hour;

(6) One (1) conveyor, identified as C2, with a maximum capacity of 1000 tons per hour;

(7) Two (2) conveyors, identified as C3 and C4, each with a maximum capacity of 750 tons per hour;

(8) Two (2) conveyors, identified as C5 and C6, each with a maximum capacity of 300 tons per hour;

(9) Ten (10) conveyors, identified as C7 through C17, each with a maximum capacity of 500 tons per hour;

(10) Three (3) drop balls, identified as DB1, DB2, and DB3, each with a maximum capacity of 500 tons per hour; and

(11) Two (2) magnets, identified as M1 and M2, each with a maximum capacity of 500 tons per hour.

(b) One (1) portable slag crushing operation, approved for construction in 2009, identified as Portable Crushing, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PC-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PC-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) crusher, identified as PC-CR1, with a maximum capacity of 250 tons per hour; and

(4) One (1) conveyor, identified as PC-C3, with a maximum capacity of 250 tons per hour.

(c) One (1) portable slag screening operation, approved for construction in 2009, identified as Portable Screening, with PM controlled by wet suppression, and consisting of the following new equipment:

(1) One (1) feed bin, identified as PS-F1, with a maximum capacity of 250 tons per hour;

(2) One (1) feed conveyor, identified as PS-C1, with a maximum capacity of 250 tons per hour;

(3) One (1) conveyor, identified as PS-C2, with a maximum capacity of 250 tons per hour;

(4) One (1) screen, identified as PS-S1, with a maximum capacity of 250 tons per hour; and

(5) Three (3) conveyors, identified as PS-C3, PS-C4, and PS-C5, each with a maximum capacity of 250 tons per hour.

(d) Associated storage piles, loading and unloading of trucks, and road traffic.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	1027.55
PM_{10}	359.45
$PM_{2.5}$	245.74
SO_2	0
VOC	0
CO	0
NO_X	0

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because the potential to emit of particulate matter (PM), particulate matter less than ten microns (PM_{10}), and particulate matter less than two-and-a-half microns ($PM_{2.5}$) is each greater than twenty-five (25) tons per year before control.

Additionally, this modification would normally require a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because it involves a case-by-case determination of an emission limitation as well as significant changes to monitoring, reporting, and record keeping requirements. However, ArcelorMittal and Phoenix Services have requested that this operation receive its own Title V Operating Permit in lieu of a significant permit modification to ArcelorMittal's Operating Permit. An administrative Title V Operating Permit is required because Phoenix Services is locating at a Title V source. Therefore, pursuant to 326 IAC 2-7, an administrative Title V Operating Permit is being issued.

Permit Level Determination – PSD, Emission Offset, and Nonattainment NSR

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

Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**NO_X**
Controlled / Limited PTE for New Units							
Main Slag Processing Operation	6.59	2.39	2.39	0	0	0	0
Portable Crushing Operation	0.12	0.05	0.05	0	0	0	0
Portable Screening Operation	0.37	0.13	0.13	0	0	0	0
Storage Pile Aggregate Handling	0.26	0.12	0.02	0	0	0	0
Storage Pile Wind Erosion	9.31	4.66	0.70	0	0	0	0
Roadway Emissions	28.55	7.61	0.76	0	0	0	0
Total	45.20	14.96	4.05	0	0	0	0
Actual to Projected Actual (Existing MultiServ Operations as permitted under MPM 089-24292-00341)							
Baseline	21.71	7.38	3.62	0	0	0	0
Projected Actual	0	0	0	0	0	0	0
Emission Increases	<0	<0	<0	0	0	0	0
Hybrid Test							
Total for New Units	45.20	14.96	4.05	0	0	0	0
Total Emission Increase from ATPA	<0	<0	<0	0	0	0	0
Hybrid Test Emission Increase	45.20	14.96	4.05	0	0	0	0
PSD Significant Level	**25**	**15**	**---**	**40**	**40**	**100**	**40**
Emission Offset Significant Level	**---**	**---**	**---**	**---**	**25***	**---**	**40****
Nonattainment NSR Significant Level	**---**	**---**	**10**	**40**	**---**	**---**	**---**

* The December, 1993 rule change to the LAER/Emission Offset requirements lowered the threshold of the level of emissions that trigger review as a major modification for severe nonattainment areas from 40 to 25 tons per year of VOCs and nitrogen oxides (NO_x).
** On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO_x threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards.

For any pollutant for which the emissions from the Hybrid Test in the above table are above the PSD Significant Threshold, a Project Netting Analysis was conducted as shown in the table below in order to limit the emissions increases from this project to below the PSD Significant Threshold.

The Permittee has provided information as part of the application for this approval that, based on Actual to Projected Actual test in 326 IAC 2-2-2, this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. The applicant will be required to keep records and report in accordance with Source obligation in 326 IAC 2-2-8.

Netting Analysis (tons/yr)	
Process / Emission Unit	**PM**
PTE of New Units	
Main Slag Processing Operation	6.59
Portable Crushing Operation	0.12
Portable Screening Operation	0.37
Storage Pile Aggregate Handling	0.26
Storage Pile Wind Erosion	9.31
Roadway Emissions	28.55
PTE	**45.20**
Actual to Future Allowables (Existing MultiServ Operations as permitted under MPM 089-24292-00341)	
Baseline	21.71
Future Allowables	0
Actual to Future Allowables	**- 21.71**
Netting	
PTE	45.20
Actual to Future Allowables	- 21.71
Emissions Increase for the Project	**23.49**
PSD Significant Level	**25**

The September 14, 2006 Federal Register proposed ruling for the New Source Review (NSR) program, clarifying for sources and permitting authorities three aspects of the NSR program that pertain to how to determine what emissions increases and decreases to consider in determining major NSR applicability for modified sources. Aggregation groups together multiple, related physical or operational changes into a single project. These activities should be aggregated for the purposes of the NSR applicability determination only in cases where there is a substantial relationship among the activities, either from a technical or an economic standpoint. This modification does not require aggregating multiple emission increases and/or decreases as Phoenix Services is a distinctive corporate entity, separate from Edward C. Levy Company or any other slag processing contractors for ArcelorMittal, as it has its own distinct contract with ArcelorMittal and its own distinct permit throughput limits.

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

This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset and Nonattainment NSR significant levels. Therefore, pursuant to 326 IAC 2-3 and 326 IAC 2-1.1-5, the Emission Offset and Nonattainment NSR requirements do not apply.

Since this source is considered a major PSD source and the unrestricted potential to emit of this modification is greater than twenty-five (25) tons of PM per year, fifteen (15) tons of PM_{10} per year, and ten (10) tons of $PM_{2.5}$ per year, this source has elected to limit the potential to emit of this modification as follows:

(a) The aggregate input to the stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, shall be less than 2,022,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The combined aggregate input to the portable slag crushing and slag screening operations, approved for construction in 2009, identified as Portable Crushing and Portable Screening, shall be less than 340,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(c) Pursuant to 325 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the facility Fugitive Dust Control Plan.

(d) Pursuant to 326 IAC 2-2 (PSD) and SSM 089-27217-00538, the following units shall be permanently removed from operation in order to obtain the necessary credit for netting requirements. The following units' operational approval was revoked under 089-27773-00341:

MultiServ Slag Operations

(1) Main Slag Processing Plant consisting of the following emission units:
- (A) One (1) Boliden Allis 6' X 10' Feeder
- (B) One (1) Boliden Allis 7' X 10' Grizzly
- (C) One (1) Boliden Allis 6' X 11' Feeder
- (D) One (1) 42" X 129' Main Feed Belt conveyor
- (E) One (1) Boliden 6' X 8" Feeder
- (F) One (1) Stearns 60" X 84" Magnet Drum
- (G) Three (3) Boliden Allis 4' X 12' Feeders
- (H) One (1) Boliden Allis 6' X 20' Double Deck Screen
- (I) One (1) 36" X 60' Metallics Product Conveyor
- (J) One (1) 36" X 16' Metallics Transfer Conveyor
- (K) One (1) 36" X 100' Metallics Feed Conveyor
- (L) Two (2) Stearns 42 X 60 Magnet Drums
- (M) Three (3) conveyors
- (N) Two (2) screens
- (O) Two (2) 24" X 60' Metallics Product Conveyors
- (P) One (1) 36" X 95' Metallics Feed Conveyor
- (Q) One (1) 24" X 35' Slag Transfer Conveyor
- (R) One (1) 24" X 60' Slag Recirculating Conveyor
- (S) One (1) 42" x 137' Slag Feed Conveyor
- (T) One (1) Boliden Allis 8' X 20' Double Deck Screen
- (U) One (1) 36"X 75' Slag Conveyor
- (V) One (1) 24" X 60' Slag Transfer Conveyor
- (W) One (1) 24" X 80' Slag Product Conveyor

(X) One (1) 36" X 80' Slag Feed Conveyor
(Y) One (1) PEP 6' X 18' Vari-Vibe III Single Deck Screen
(Z) Two (2) 24" X 80' Slag Product Conveyors
(AA) One (1) 36" X 84' Slag Conveyor
(BB) One (1) Pendulum Magnet
(CC) One (1) 36' X 34' – 6 Reversing Conveyor
(DD) One (1) 54" Eljay Crusher
(EE) One (1) 24" X 44' Crusher Recirculating Conveyor
(FF) Aggregate Storage Piles with total capacity of 2,000,000 tons

(2) CM-13 Processing Plant consisting of the following emission units:
(A) The following constructed in 1993:
(i) One (1) 48' X 60' Feeder
(ii) Two (2) AC 4' X 12' Feeders
(iii) One (1) Dings 36" X 60" Magnet Drum
(iv) One (1) PEP Screen
(v) One (1) Tyler 6' X 20' Double Deck Screen
(vi) One (1) 36" X 75' Conveyor
(vii) Two (2) 24" X 30' Conveyors
(viii) One (1) 36" X 85' Conveyor
(ix) One (1) 24" X 100' Conveyor
(x) One (1) 36 " X 20' Conveyor
(xi) Three (3) 36" X 60' Conveyors
(xii) One (1) 42" X 18' Conveyor
(xiii) One (1) slag crushing circuit consisting of one (1) crusher identified as ID-26 and six (6) conveyor transfers identified as ID-22, ID-23, ID-24, ID-25, ID-27 and ID-28, respectively.
(xiv) Aggregate Storage Piles with total capacity of 1,000,000 tons
(B) Portable Crushing Plant, consisting of the following:
(i) One (1) crusher
(ii) One (1) screen
(iii) Six (6) conveyor transfer points
(iv) One (1) industrial diesel engine, with a maximum heat input of 0.573 MMBTU/HR

(3) Kish Processing Plant consisting of the following emission units:
(A) Two (2) raw material feeders
(B) Three (3) conveyors
(C) One (1) Drum Magnet
(D) One (1) double screen
(E) Five (5) conveyors
(F) Aggregate Storage Piles with total capacity of 1,000,000 tons

Removal of these units shall reduce the PM emissions by 21.71 tons per twelve (12) consecutive month period. The shutdown of these units shall be permanent.

Compliance with these emission limits will ensure that the potential to emit from this modification is less than twenty-five (25) tons of PM per year, fifteen (15) tons of PM_{10} per year, and ten (10) tons of $PM_{2.5}$ per year and therefore will render the requirements of 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

NSPS:

(a) This source is not subject to the requirements of the New Source Performance Standard for Metallic Mineral Processing Plants (40 CFR 60.380, Subpart LL) because the operations are not producing metallic mineral concentrates from ore. None of this slag crushing and/or screening operation is performed in a mine or pit.

(b) This source is not subject to the requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants (40 CFR 60.670, Subpart OOO) because the slag material being crushed does not meet the definition of a nonmetallic mineral pursuant to 40 CFR 60.671.

NESHAP:

(c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

CAM:

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

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

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

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

Control devices are not used for any unit in this modification. Therefore, the requirements of 40 CFR Part 64, CAM are not applicable to any of the new units as part of this modification.

State Rule Applicability Determination

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

326 IAC 1-5-2 (Emergency Reduction Plans)
The source is subject to 326 IAC 1-5-2.

326 IAC 2-1.1-5 (Nonattainment New Source Review)
The source is taking limits to make this a minor modification under 326 IAC 2-1.1-5. Nonattainment New Source Review (NSR) applicability is discussed in greater detail under the Permit Level Determination – PSD, Emission Offset, and Nonattainment NSR section.

326 IAC 2-2 (PSD)
The source is taking limits to make this a minor modification under 326 IAC 2-2. PSD applicability is discussed in greater detail under the Permit Level Determination – PSD, Emission Offset, and Nonattainment NSR section.

326 IAC 2-3 (Emission Offset)
The source is taking limits to make this a minor modification under 326 IAC 2-3. Emission Offset applicability is discussed in greater detail under the Permit Level Determination – PSD, Emission Offset, and Nonattainment NSR section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
Pursuant to 326 IAC 2-4.1-1(b)(2), the requirements of 326 IAC 2-4.1-1 do not apply to a major source specifically regulated, or exempt from regulation, by a standard issued pursuant to Section 112(d), 112(h), or 112(j) of the CAA.

This specific steel slag processing operation will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs.

326 IAC 2-6 (Emission Reporting)
Since this source is located in Lake County and has a potential to emit NO_X greater than or equal to twenty-five (25) tons per year, an emission statement covering the previous calendar year must be submitted by July 1 of each year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-5(13) (Preventive Maintenance Plan)
Pursuant to 326 IAC 2-7-5(13), a Preventive Maintenance Plan is required for the emission units.

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

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

(a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
This modification is not subject to the requirements of 326 IAC 6-3 because the facility is subject to the requirements of 326 IAC 6.8-1-2 (Lake County: PM_{10} Emission Requirements). Pursuant to the applicability requirements (326 IAC 6-3-1(b)), if any limitation established by this rule is inconsistent with applicable limitations contained in 326 IAC 6.8-1 (Lake County: PM_{10} Emission Requirements) or 326 IAC 12 (New Source Performance Standards), then the limitations contained in 326 IAC 6.8-1 or 326 IAC 12 prevail.

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 6.8-1-2 (Lake County: PM_{10} Emission Requirements)
Pursuant to 326 IAC 6.8-1-2(a), the following emission units shall not exceed 0.03 gr/dscf of particulate matter less than ten microns in diameter (PM_{10}):

Storage Piles, Truck Loading & Unloading, and Transporting (Road Emissions), Grizzly Feeder (F1), Bin (F2), Bin (F3), Crusher (CR1), Screen (S1), Screen (S2), Conveyor (C1), Conveyor (C2), Conveyor (C3), Conveyor (C4), Conveyor (C5), Conveyor (C6), Conveyor (C7), Conveyor (C8), Conveyor (C9), Conveyor (C10), Conveyor (C11), Conveyor (C12), Conveyor (C13), Conveyor (C14), Conveyor (C15), Conveyor (C16), Conveyor (C17), Drop Ball (DB1), Drop Ball (DB2), Magnet (M1), Magnet (M2), Feed Bin (PC-F1), Feed Conveyor (PC-C1), Crusher (PC-CR1),

Conveyor (PC-C3), Feed Bin (PS-F1), Feed Conveyor (PS-C1), Conveyor (PS-C2), Screen (PS-S1), Conveyor (PS-C3), Conveyor (PS-C4), and Conveyor (PS-C5).

326 IAC 6.8-8 (Lake County: Continuous Compliance Plan)
Pursuant to 326 IAC 6.8-8-1(18)(C), the Permittee shall submit to IDEM, and maintain at the source, a copy of the Continuous Compliance Plan. The Permittee shall perform the inspections, monitoring, and record keeping requirements as specified in 326 IAC 6.8-8-7. The Permittee shall update the CCP (as needed), retain a copy on site, and make the updated CCP available for inspection as specified in 326 IAC 6.8-8-8.

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

(a) Pursuant to 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter), the particulate matter emissions from source wide activities shall meet the following requirements:

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

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

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

(4) 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.

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

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

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

(8) 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.

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

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

(11) 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.

(12) PM_{10} emissions from each material processing stack shall not exceed 0.022 grains per dry standard cubic foot and ten percent (10%) opacity.

(13) Fugitive particulate matter from the material processing facilities shall not exceed ten percent (10%) opacity.

(14) 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).

Material processing facilities include crushers, screens, grinders, mixers, dryers, belt conveyors, bucket elevators, bagging operations, storage bins, and truck or railroad car loading stations.

(b) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on January 20, 2009.

326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)
This modification has a potential to emit less than twenty-five (25) tons per year of sulfur dioxide. Therefore, 326 IAC 7-1.1-1 does not apply.

326 IAC 8-1-6 (BACT)
This modification has a potential to emit less than twenty-five (25) tons per year of VOC. Therefore, 326 IAC 8-1-6 does not apply.

326 IAC 9 (Carbon Monoxide Emission Limits)
No emission limit has been established for this source type pursuant to 326 IAC 9-1-2. Therefore, 326 IAC 9 does not apply.

Compliance Determination and Monitoring Requirements

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

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

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

(1) Particulate Control
In order to ensure compliance with Conditions D.1.1 and D.1.2, the Permittee shall apply an initial application of water or a mixture of water and wetting agent to control the PM, PM_{10} and $PM_{2.5}$ emissions from the slag processing operations. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Conditions

D.1.1 and D.1.2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the metallurgical material to ensure it has a moisture content greater than 1.5 percent of the process stream by weight. The Permittee shall submit to IDEM, OAQ the method for moisture content analysis for approval.

(2) Particulate Matter (PM)
Pursuant to 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter), compliance with the opacity limits specified in Condition C.6 shall be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP). If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

Opacity from the activities shall be determined as follows:

(a) 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 applications 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 in plant 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.

(3) Visible Emissions Notations

(a) Visible emissions notations of the slag crushing and sizing operations listed in Section D.1 shall be performed once per day during normal daylight operations. A trained employee will record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C-Response to Excursions or Exceedances. Failure to

take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

(4) Recordkeeping Requirements

(a) The aggregate input to the stationary steel slag processing operation, approved for construction in 2009, identified as Main Slag Processing, shall be less than 2,022,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The combined aggregate input to the portable slag crushing and slag screening operations, approved for construction in 2009, identified as Portable Crushing and Portable Screening, shall be less than 340,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

These determination and monitoring conditions are necessary because fugitive dust must be properly controlled to ensure compliance with 326 IAC 2-2 (PSD), 326 IAC 2-1.1-5 (Nonattainment NSR), 326 IAC 6-4 (Fugitive Dust Emissions), 326 IAC 6.8 (Particulate Matter Limitations for Lake County), and 326 IAC 2-7 (Part 70).

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 089-27217-00538 and Part 70 Operating Permit No. T089-27232-00538. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Part 70 Operating Permit be approved.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant

- ArcelorMittal Indiana Harbor West (IHW) has decided to award the BOF slag processing contract to Phoenix Services, LLC.
- Steel slag is currently processed by MultiServ who will cease operations at IHW in August 2009.

- Phoenix will send all materials through a watering station (pre-wetting) before processing.
- MultiServ did not wet down any materials before processing, they used water sprays for wet suppression of dry materials, as needed.
- Pre-wetting all materials prior to processing will significantly reduce fugitive emissions.

Process / Emission Unit	**PM**	**PM10**	**PM2.5**
Controlled / Limited PTE for New Units			
Main Slag Processing Operations	6.59	2.39	2.39
Portable Crushing Operation	0.12	0.05	0.05
Portable Screening Operation	0.37	0.13	0.13
Storage Pile Aggregate Handling	0.26	0.12	0.02
Storage Pile Wind Erosion	9.31	4.66	0.70
Roadway Emissions	28.55	7.61	0.76
Future After Control Emissions	**45.20**	**14.96**	**4.05**
Actual to Projected Actual (Existing MultiServ Operations)			
Baseline Emissions	21.71	7.38	3.62
Projected Actual Emissions	0	0	0
Emission Increases	**<0**	**<0**	**<0**
Hybrid Test			
Total for New Units	45.20	14.96	4.05
Total Emission Increase from ATPA	<0	<0	<0
Hybrid Test Emission Increase	**45.20**	**14.96**	**4.05**
Significance Thresholds	**25**	**15**	**10**

For any pollutant for which the emissions from the Hybrid Test in the above table are above the PSD Significant Threshold, a Project Netting Analysis was conducted as shown in the table below in order to limit the emissions increases from this project to below the PSD Significant Threshold.

Process / Emission Unit	**PM**
PTE for New Units	
Main Slag Processing Operations	6.59
Portable Crushing Operation	0.12
Portable Screening Operation	0.37
Storage Pile Aggregate Handling	0.26
Storage Pile Wind Erosion	9.31
Roadway Emissions	28.55
PTE	**45.20**
Actual to Future Allowables (Existing MultiServ Operations)	
Baseline Emissions	21.71
Future Allowables	0
Actual to Future Allowables	**-21.71**
Netting Analysis	
PTE	45.20
Actual to Future Allowables	-21.71
Emissions Increase for the Project	**23.49**
Significance Thresholds	**25**

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Throughputs

Baseline Production (tons/yr), MultiServ Main Slag Plant	720,000	60,000 tons per month average actuals
Baseline Production (tons/yr), MultiServ CM-13 Plant	72,000	6,000 tons per month average actuals
Future Production (tons/yr), for Phoenix Main Slag Ops	2,022,500	<==== Limited Throughput
Future Production (tons/yr), for Phoenix Portable Ops	340,000	<==== Limited Throughput

Unit	Baseline Throughput (tpy)
MAIN SLAG PLANT	
6x10 Feeder	720,000
7x10 Grizzly	720,000
6x11 Feeder	720,000
42x129 Conveyor	720,000
6x8 Feeder	720,000
60x84 Magnet	720,000
4x12 Feeder	720,000
4x12 Feeder	720,000
4x12 Feeder	720,000
6x20 Screen	720,000
36x60 Conveyor	720,000
36x16 Conveyor	720,000
36x100 Conveyor	720,000
42x60 Magnet	720,000
42x60 Magnet	720,000
500 tph Conveyor	720,000
500 tph Conveyor	720,000
500 tph Conveyor	720,000
500 tph Screen	720,000
500 tph Screen	720,000
24x60 Conveyor	720,000
24x60 Conveyor	720,000
36x95 Conveyor	720,000
24x35 Conveyor	720,000
24x60 Conveyor	720,000
42x137 Conveyor	720,000
8x20 Screen	720,000
36x75 Conveyor	720,000
24x60 Conveyor	720,000
24x80 Conveyor	720,000
36x80 Conveyor	720,000
6x18 Screen	720,000
24x80 Conveyor	720,000
24x80 Conveyor	720,000
36x84 Conveyor	720,000
Pendulum Magnet	720,000
36x34 Conveyor	720,000
Eljay Crusher	720,000
24x44 Conveyor	720,000
CM-13 PLANT	
48x60 Feeder	72,000
4x12 Feeder	72,000
4x12 Feeder	72,000
36x60 Magnet	72,000
PEP Screen	72,000
6x20 Screen	72,000
36x75 Conveyor	72,000
24x30 Conveyor	72,000
24x30 Conveyor	72,000
36x85 Conveyor	72,000
24x100 Conveyor	72,000
36x20 Conveyor	72,000
36x60 Conveyor	72,000
36x60 Conveyor	72,000
36x60 Conveyor	72,000
42x18 Conveyor	72,000
ID-26 Crusher	72,000
ID-22 Conveyor	72,000
ID-23 Conveyor	72,000
ID-24 Conveyor	72,000
ID-25 Conveyor	72,000
ID-27 Conveyor	72,000
ID-28 Conveyor	72,000

Unit	Future Capacity (tph)	Future Limited Capacity (tpy)
MAIN SLAG PROCESSING OPERATION		
F1 Vibrating Grizzly Feeder	1000	2,022,500
F2 150-ton Bin	800	2,022,500
F3 50-ton Bin	800	2,022,500
CR1 Jaw Crusher	300	2,022,500
S1 Triple Deck Screen	400	2,022,500
S2 Triple Deck Screen	400	2,022,500
C1 Conveyor	1250	2,022,500
C2 Conveyor	1000	2,022,500
C3 Conveyor	750	2,022,500
C4 Conveyor	750	2,022,500
C5 Conveyor	300	2,022,500
C6 Conveyor	300	2,022,500
C7 Conveyor	500	2,022,500
C8 Conveyor	500	2,022,500
C9 Conveyor	500	2,022,500
C10 Conveyor	500	2,022,500
C11 Conveyor	500	2,022,500
C12 Conveyor	500	2,022,500
C13 Conveyor	500	2,022,500
C14 Conveyor	500	2,022,500
C15 Conveyor	500	2,022,500
C16 Conveyor	500	2,022,500
C17 Conveyor	500	2,022,500
DB1 Drop Ball	500	2,022,500
DB2 Drop Ball	500	2,022,500
DB3 Drop Ball	500	2,022,500
M1 Magnet	500	2,022,500
M2 Magnet	500	2,022,500
PORTABLE CRUSHING OPERATION		
PC-F1 Feed Bin	250	340,000
PC-C1 Feed Conveyor	250	340,000
PC-CR1 Crusher	250	340,000
PC-C3 Conveyor	250	340,000
PORTABLE SCREENING OPERATION		
PS-F1 Feed Bin	250	340,000
PS-C1 Feed Conveyor	250	340,000
PS-C2 Conveyor	250	340,000
PS-S1 Screen	250	340,000
PS-C3 Conveyor	250	340,000
PS-C4 Conveyor	250	340,000
PS-C5 Conveyor	250	340,000

Unit	Baseline Miles RT	Future Miles RT
Loaders	0.1	0.1
Trucks	0.8	0.8

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Emission Factors

AP-42, 11.19.2, Table 11.19.2-2, Date 8/04
Crushed Stone Processing Operations

Source Operation	Uncontrolled PM (lb/ton)	Uncontrolled PM-10 (lb/ton)	Uncontrolled PM-2.5 (lb/ton)
Primary Crushing (SCC 3-05-020-01)	ND	ND	ND
Secondary Crushing (SCC 3-05-020-02)	ND	ND	ND
Tertiary Crushing (SCC 3-05-020-03)	0.0054	0.0024	ND
Screening (SCC 3-05-020-02, 03)	0.025	0.0087	ND
Converyor Transfer Point (SCC 3-05-020-06)	0.003	0.0011	ND

ND = no data.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Potential Before Control Emissions from Phoenix Operations

PTE=>	Capacity	Throughput	Uncontrolled EFs (lb/ton)			Emissions (tpy)		
Unit	(tph)	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
F1 Vibrating Grizzly Feeder	1000	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
F2 150-ton Bin	800	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
F3 50-ton Bin	800	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
CR1 Jaw Crusher	300	8,760,000	0.0054	0.0024	0.0024	23.65	10.51	10.51
S1 Triple Deck Screen	400	8,760,000	0.025	0.0087	0.0087	109.50	38.11	38.11
S2 Triple Deck Screen	400	8,760,000	0.025	0.0087	0.0087	109.50	38.11	38.11
C1 Conveyor	1250	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C2 Conveyor	1000	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C3 Conveyor	750	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C4 Conveyor	750	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C5 Conveyor	300	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C6 Conveyor	300	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C7 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C8 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C9 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C10 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C11 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C12 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C13 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C14 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C15 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C16 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
C17 Conveyor	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
DB1 Drop Ball	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
DB2 Drop Ball	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
DB3 Drop Ball	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
M1 Magnet	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
M2 Magnet	500	8,760,000	0.003	0.0011	0.0011	13.14	4.82	4.82
PC-F1 Feed Bin	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PC-C1 Feed Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PC-CR1 Crusher	250	2,190,000	0.0054	0.0024	0.0024	5.91	2.63	2.63
PC-C3 Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-F1 Feed Bin	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-C1 Feed Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-C2 Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-S1 Screen	250	2,190,000	0.025	0.0087	0.0087	27.38	9.53	9.53
PS-C3 Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-C4 Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
PS-C5 Conveyor	250	2,190,000	0.003	0.0011	0.0011	3.29	1.20	1.20
Loading-Unloading Operations*	---	10,950,000	0.00221	0.00104	0.00016	12.10	5.72	0.87
Storage Piles**	---	10,950,000		---	---	93.10	46.55	6.98
Roadways***	---	10,950,000		---	---	285.48	76.08	7.61
					Total Emissions (tpy):	**1024.68**	**358.52**	**245.63**

* Loading/Unloading Emission Calcs, see "Loading-Unloading" spreadsheet.
** Storage Piles Emission Calcs, see "Storage Piles" spreadsheet.
*** Roadway Emission Calcs, see "Future Roads" spreadsheet.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Baseline Emissions from MultiServ Operations

Baseline=>	Throughput	Uncontrolled EFs (lb/ton)			Control	Emissions (tpy)		
Unit	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	Efficiency	PM	PM_{10}	$PM_{2.5}$
6x10 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
7x10 Grizzly	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
6x11 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
42x129 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
6x8 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
60x84 Magnet	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
4x12 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
4x12 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
4x12 Feeder	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
6x20 Screen	720,000	0.025	0.0087	0.0087	90.0%	0.9000	0.3132	0.3132
36x60 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x16 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x100 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
42x60 Magnet	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
42x60 Magnet	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
500 tph Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
500 tph Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
500 tph Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
500 tph Screen	720,000	0.025	0.0087	0.0087	90.0%	0.9000	0.3132	0.3132
500 tph Screen	720,000	0.025	0.0087	0.0087	90.0%	0.9000	0.3132	0.3132
24x60 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x60 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x95 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x35 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x60 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
42x137 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
8x20 Screen	720,000	0.025	0.0087	0.0087	90.0%	0.9000	0.3132	0.3132
36x75 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x60 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x80 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x80 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
6x18 Screen	720,000	0.025	0.0087	0.0087	90.0%	0.9000	0.3132	0.3132
24x80 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
24x80 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x84 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
Pendulum Magnet	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
36x34 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
Eljay Crusher	720,000	0.0054	0.0024	0.0024	90.0%	0.1944	0.0864	0.0864
24x44 Conveyor	720,000	0.003	0.0011	0.0011	90.0%	0.1080	0.0396	0.0396
48x60 Feeder	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
4x12 Feeder	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
4x12 Feeder	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x60 Magnet	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
PEP Screen	72,000	0.025	0.0087	0.0087	90.0%	0.0900	0.0313	0.0313
6x20 Screen	72,000	0.025	0.0087	0.0087	90.0%	0.0900	0.0313	0.0313
36x75 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
24x30 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
24x30 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x85 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
24x100 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x20 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x60 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x60 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
36x60 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
42x18 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-26 Crusher	72,000	0.0054	0.0024	0.0024	90.0%	0.0194	0.0086	0.0086
ID-22 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-23 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-24 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-25 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-27 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
ID-28 Conveyor	72,000	0.003	0.0011	0.0011	90.0%	0.0108	0.0040	0.0040
Loading-Unloading Operations*	792,000	0.00872	0.004125	0.000625	90.0%	0.3454	0.1634	0.0247
Storage Piles**	792,000	---	---	---	90.0%	3.1211	1.5606	0.2341
Roadways***	792,000	---	---	---	90.0%	9.5704	2.5505	0.2550
					Total Emissions (tpy):	**21.71**	**7.38**	**3.62**

Control efficiencies applied to process and roadways:

Wet suppression for roads, storage, loading: 90.0%
Wet suppression for processing of materials: 90.0%

* Loading/Unloading Emission Calcs, see "Loading-Unloading" spreadsheet.
** Storage Piles Emission Calcs, see "Storage Piles" spreadsheet.
*** Roadway Emission Calcs, see "Baseline Roads" spreadsheet.

All existing equipment from MultiServ will cease operation in August, 2009. This also includes both the CM-13 portable crushing plant and the kish processing plant that are not listed above. These plants have not been included in the baseline emission calculations as to maintain a conservative account of decreased emissions for the project netting analysis from aggregates that have been processed twice.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Future After Control Emissions from Phoenix Operations

Future=>	Capacity	Throughput	Uncontrolled EFs (lb/ton)			Control	Emissions (tpy)		
Unit	(tph)	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	Efficiency	PM	PM_{10}	$PM_{2.5}$
F1 Vibrating Grizzly Feeder	1000	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
F2 150-ton Bin	800	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
F3 50-ton Bin	800	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
CR1 Jaw Crusher	300	2,022,500	0.0054	0.0024	0.0024	95.0%	0.2730	0.1214	0.1214
S1 Triple Deck Screen	400	2,022,500	0.025	0.0087	0.0087	95.0%	1.2641	0.4399	0.4399
S2 Triple Deck Screen	400	2,022,500	0.025	0.0087	0.0087	95.0%	1.2641	0.4399	0.4399
C1 Conveyor	1250	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C2 Conveyor	1000	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C3 Conveyor	750	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C4 Conveyor	750	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C5 Conveyor	300	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C6 Conveyor	300	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C7 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C8 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C9 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C10 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C11 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C12 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C13 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C14 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C15 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C16 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
C17 Conveyor	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
DB1 Drop Ball	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
DB2 Drop Ball	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
DB3 Drop Ball	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
M1 Magnet	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
M2 Magnet	500	2,022,500	0.003	0.0011	0.0011	95.0%	0.1517	0.0556	0.0556
PC-F1 Feed Bin	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PC-C1 Feed Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PC-CR1 Crusher	250	340,000	0.0054	0.0024	0.0024	95.0%	0.0459	0.0204	0.0204
PC-C3 Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-F1 Feed Bin	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-C1 Feed Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-C2 Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-S1 Screen	250	340,000	0.025	0.0087	0.0087	95.0%	0.2125	0.0740	0.0740
PS-C3 Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-C4 Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
PS-C5 Conveyor	250	340,000	0.003	0.0011	0.0011	95.0%	0.0255	0.0094	0.0094
Loading-Unloading Operations*	---	2,362,500	0.00221	0.00104	0.00016	90.0%	0.2610	0.1234	0.0187
Storage Piles**	---	2,362,500		---	---	90.0%	9.3102	4.6551	0.6983
Roadways***	---	2,362,500		---	---	90.0%	28.5481	7.6079	0.7608
						Total Emissions (tpy):	**45.20**	**14.96**	**4.05**

Control efficiencies applied to process and roadways:

Wet suppression for roads, storage, loading: 90.0%

Pre-wetting of all process materials: 95.0% PLC system also contributes additional control efficiency.
Add'l wet suppression to be used throughout the process, as needed

* Loading/Unloading Emission Calcs, see "Loading-Unloading" spreadsheet.

** Storage Piles Emission Calcs, see "Storage Piles" spreadsheet.

*** Roadway Emission Calcs, see "Future Roads" spreadsheet.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Baseline Emission Factors For Loading & Unloading Operations from MultiServ
From AP-42 13.2.4, January 1995, Drop Operations

$$E = k(0.0032)\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

	PM	PM10	PM2.5
k =	0.74	0.35	0.053

Where:
E = emission factor (lb/tn)
k = particle size multiplier (dimensionless)
U = mean wind speed, miles per hour
M = material moisture content (%)

10 mean wind speed, (mph)
1.5 %, MultiServ Minor Permit Modification 089-24292-00341, Condition D.1.4

Emission Factors (lb/tn)		
PM	PM10	PM2.5
0.008722	0.004125	0.000625

****

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Future Emission Factors For Loading & Unloading Operations for Phoenix
From AP-42 13.2.4, January 1995, Drop Operations

$$E = k(0.0032)\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

	PM	PM10	PM2.5
k =	0.74	0.35	0.053

Where:
E = emission factor (lb/tn)
k = particle size multiplier (dimensionless)
U = mean wind speed, miles per hour
M = material moisture content (%)

10 mean wind speed, (mph)
4 %, average moisture of pre-wetted slag material from Phoenix

Emission Factors (lb/tn)		
PM	PM10	PM2.5
0.002209	0.001045	0.000158

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Storage Pile Emissions

****

Baseline Emissions from Storage Piles from MultiServ Operations
AP-42, 13.2.4, Date 1/95

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)				
where s =	5.3	%, mean silt content of material, Table 13.2.4-1, slag			
p =	135	days of rain greater than or equal to 0.01 inches			
f =	15	% of wind greater than or equal to 12 mph			
Ef (PM) =	5.88	lb/acre/day			
Ef (PM10) =	2.94	lb/acre/day	PM10 =	50.0%	of PM per AP-42, page 13.2.5-3 (11/06)
Ef (PM2.5) =	0.44	lb/acre/day	PM2.5 =	7.5%	of PM per AP-42, page 13.2.5-3 (11/06)
Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)				
where sc =	792,000	tons storage capacity			
=	31.21	tons PM/yr Uncontrolled			
=	15.61	tons PM-10/yr Uncontrolled			
=	2.34	tons PM-2.5/yr Uncontrolled			
Ec (storage) =	(Emissions Uncontrolled) X (1 - Control Eff.)		Control Eff. =	90%	
=	**3.12**	**tons PM/yr Controlled**			
=	**1.56**	**tons PM-10/yr Controlled**			
=	**0.23**	**tons PM-2.5/yr Controlled**			

****

Future Emissions from Storage Piles for Phoenix Operations
AP-42, 13.2.4, Date 1/95

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)				
where s =	5.3	%, mean silt content of material, Table 13.2.4-1, slag			
p =	135	days of rain greater than or equal to 0.01 inches			
f =	15	% of wind greater than or equal to 12 mph			
Ef (PM) =	5.88	lb/acre/day			
Ef (PM10) =	2.94	lb/acre/day	PM10 =	50.0%	of PM per AP-42, page 13.2.5-3 (11/06)
Ef (PM2.5) =	0.44	lb/acre/day	PM2.5 =	7.5%	of PM per AP-42, page 13.2.5-3 (11/06)
Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)				
where sc =	2,362,500	tons storage capacity			
=	93.10	tons PM/yr Uncontrolled			
=	46.55	tons PM-10/yr Uncontrolled			
=	6.98	tons PM-2.5/yr Uncontrolled			
Ec (storage) =	(Emissions Uncontrolled) X (1 - Control Eff.)		Control Eff. =	90%	
=	**9.31**	**tons PM/yr Controlled**			
=	**4.66**	**tons PM-10/yr Controlled**			
=	**0.70**	**tons PM-2.5/yr Controlled**			

****

The equations are from AP-42, Fourth Edition, Section 11.2.3 (5/83).
This section of AP-42 was been superceded with a revised version at Section 13.2.4.
The revised Section 13.2.4 does not offer wind erosion estimation equations.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Baseline Unpaved Roadway Emissions from MultiServ Operations

UNPAVED ROADWAY EMISSIONS (trucks and loaders)

Vehicle	Production (tons/yr)	Product Weight (tons per round trip)	Round Trips/yr	Miles per round trip	VMT/yr	Round Trips/hr	Round Trips/day
Trucks	792,000	38	20,774	0.80	16,619	2	57
Loaders	792,000	10	77,268	0.10	7,727	9	212

Vehicle	W = Mean Weight (tons)	PM Emission Factor (lb/VMT)	PM10 Emission Factor (lb/VMT)	PM2.5 Emission Factor (lb/VMT)	VMT/yr	Uncontrolled PM Emissions (TPY)	Uncontrolled PM10 Emissions (TPY)	Uncontrolled PM2.5 Emissions (TPY)
Trucks	78	8.23	2.19	0.22	16,619	68.35	18.22	1.82
Loaders	56	7.08	1.89	0.19	7,727	27.35	7.29	0.73
					TOTAL	95.70	25.50	2.55

Control Efficiency = 90%

Vehicle	Controlled PM Emissions (TPY)	Controlled PM10 Emissions (TPY)	Controlled PM2.5 Emissions (TPY)
Trucks	6.84	1.82	0.18
Loaders	2.74	0.73	0.07
TOTAL	**9.57**	**2.55**	**0.26**

AP-42, 13.2.2 Eqn (1a), 11/06
$lb/VMT = k(s/12)^a x (W/3)^b x [(365-P)/365]$

Variable	**PM Value**	**Source**
k	4.9	Table 13.2.2-2
a	0.7	Table 13.2.2-2
b	0.45	Table 13.2.2-2
Variable	**PM10 Value**	**Source**
k	1.5	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
Variable	**PM2.5 Value**	**Source**
k	0.15	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
Variable	**All**	**Source**
s	6	%, Table 13.2.2-1
P	135	Figure 13.2.2-1

Assuming same truck and loader average weights as future equipment.

Phoenix Services, LLC - Indiana Harbor West Slag Processing Plant
Future Potential Unpaved Roadway Emissions for Phoenix Operations

UNPAVED ROADWAY EMISSIONS

Vehicle	Production (tons/yr)	Product Weight (tons per round trip)	Round Trips/yr	Miles per round trip	VMT/yr	Round Trips/hr	Round Trips/day
Trucks	2,362,500	38	61,967	0.80	49,574	7	170
Loaders	2,362,500	10	230,488	0.10	23,049	26	631

Vehicle	Mean Weight (tons)	PM Emission Factor (lb/VMT)	PM10 Emission Factor (lb/VMT)	PM2.5 Emission Factor (lb/VMT)	VMT/yr	Uncontrolled PM Emissions (TPY)	Uncontrolled PM10 Emissions (TPY)	Uncontrolled PM2.5 Emissions (TPY)
Trucks	78	8.23	2.19	0.22	49,574	203.89	54.34	5.43
Loaders	56	7.08	1.89	0.19	23,049	81.59	21.74	2.17
					TOTAL	285.48	76.08	7.61

Control Efficiency = 90%

Vehicle	Controlled PM Emissions (TPY)	Controlled PM10 Emissions (TPY)	Controlled PM2.5 Emissions (TPY)
Trucks	20.39	5.43	0.54
Loaders	8.16	2.17	0.22
TOTAL	**28.55**	**7.61**	**0.76**

AP-42, 13.2.2 Eqn (1a), 11/06
lb/VMT = k*(s/12)^a*(W/3)^b*[(365-P)/365]

Variable	**PM Value**	**Units**
k	4.9	Table 13.2.2-2
a	0.7	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	mean vehicle weight (tons)
s	6	%, Table 13.2.2-1
P	135	Figure 13.2.2-1
Variable	**PM10 Value**	**Units**
k	1.5	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	mean vehicle weight (tons)
s	6	%, Table 13.2.2-1
P	135	Figure 13.2.2-1
Variable	**PM2.5 Value**	**Units**
k	0.15	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	mean vehicle weight (tons)
s	6	%, Table 13.2.2-1
P	135	Figure 13.2.2-1

58.75 ton avg truck weight, tare
38.125 ton avg load weight for trucks/pot haulers
50.625 ton avg loader weight, tare
10.25 ton avg load weight for loaders

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

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

TO: Tony Cunningham
Phoenix Services, LLC
P.O. Box 449
Valparaiso, IN 46383

DATE: June 24, 2009

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

SUBJECT: Final Decision
Significant Permit Modification
089-27217-00538

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:
Susan Grenzebach - OCS Environmental
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

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

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

June 24, 2009

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: Phoenix Services, LLC
Permit Number: 089-27217-00538

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 6/24/2009 Phoenix Services, LLC 089-27217-00538 Final			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Tony Cunningham Phoenix Services, LLC PO Box 449 Valparaiso IN 46383-0449 (Source CAATS) via confirmed delivery									
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 *(Local Official)*									
3		East Chicago Public Library 2401 E Columbus Dr East Chicago IN 46312-2998 *(Library)*									
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 *(Affected Party)*									
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 *(Health Department)*									
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 *(Affected Party)*									
7		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 *(Affected Party)*									
8		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 *(Affected Party)*									
9		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 *(Affected Party)*									
10		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 *(Affected Party)*									
11		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 *(Affected Party)*									
12		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 *(Affected Party)*									
13		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)									
14		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 *(Affected Party)*									
15		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 *(Affected Party)*									

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

IDEM Staff	GHOTOPP 6/24/2009 Phoenix Services, LLC 089-27217-00538 Final			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Robert 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)									
2		Susan Grenzebach OCS Environmental 130 Lincoln St. Porter IN 46304 *(Consultant)*									
3		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 *(Affected Party)*									
4		Calumet Township Trustee 35 E 5th Avenue Gary IN 46402 *(Affected Party)*									
5		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 *(Affected Party)*									
6		Susan Grenzebach OCS Environmental 130 Lincoln Street, Suite. 1 Porter IN 46304 *(Affected Party)*									
7		Gary City Council 401 Broadway # 209 Gary IN 46402 *(Local Official)*									
8											
9											
10											
11											
12											
13											
14											
15											

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